DOSAR DE CONCURS PENTRU ACORDAREA GRADATIEI DE MERIT

Numele şi prenumele: Grigoraș Gheorghe
Funcţia didactică: Conf. dr. ing.
Facultatea/ Departamentul: IEEIA / Energetică

2019

OPISUL DOSARULUI

1. Cerere de înscriere la concursul pentru acordarea gradației de merit (Anexa 1)
2. Raport de autoevaluare pentru gradația de merit (Anexa 2)
3. Grila de evaluare completată cu toate realizările și punctajele pentru fiecare indicator de performanță
4. Declarația pe propria răspundere, prin care se confirmă că documentele depuse la dosar aparțin candidatului și că prin acestea sunt certificate activitățile desfășurate (Anexa nr. 3);
5. Fișa de verificare a îndeplinirii standardelor minimale și obligatorii naționale și ale universității pentru ocuparea posturilor didactice pe care candidatul este titularizat.
6. Certificarea Biroului personal că la dosarul de personal al candidatului există Fișa de autoevaluare și de evaluare de către directorul de Departament în cei 5 ani premergători momentului declanșării concursului.

Nr. 1412 / 01.11.2019

Anexa nr. 1

Domnule Director de Departament

Subsemnatul, Grigoraș Gheorghe, cadru didactic al Universității Tehnice "Gheorghe Asachi" din Iași, cu funcția actuală de conf. univ. dr. ing. în cadrul Departamentului de Energetică, solicit, prin prezenta, înscrierea la concursul pentru acordarea gradației de merit pentru perioada 2019 -2024, conform Procedurii privind acordarea gradațiilor de merit pentru personalul didactic titular din cadrul Universității Tehnice „Gheorghe Asahi" din Iasi, PO.DID.11.

Data,

29.10.2019

Semnătura,

Anexa nr. 2

RAPORT DE AUTOEVALUARE A ACTIVITĂŢII PENTRU ANII 2014 – 2018

Numele şi prenumele: Grigoraș Gheorghe
Funcţia didactică: Conf. dr. ing.
Facultatea/ Departamentul: IEEIA / Energetică

Criteriul 1. Activitatea didactică

Indicatori de performanţă	2014	2015	2016	2017	2018	Suma
1.1. Predare discipline/ cursuri noi în planul de învăţământ, pe direcţii neelaborate anterior (se punctează nr. de discipline noi)	20	25	25	0	0	70
1.2. Elaborare manuale universitare (inclusiv în sistem e-learning)	85.46	43.25	43.25	30.97	50.97	253.9
1.3. Elaborare suporturi de cursuri, seminarii, laboratoare, proiecte	5.40	3.6	3.6	28.86	28.86	70.32
1.4. Elaborare manuale şi alte materiale pentru învăţământul preuniversitar	0	0	0	0	0	0
1.5. Modernizare tehnologie didactică din alte surse decât din cele publice (donații, sponsorizări etc.)	85	106.42	67.78	47.85	40	347.05
TOTAL	195.86	178.27	139.63	107.68	119.83	741.27

Criteriul 2. Activitatea de cercetare științifică

Indicatori de performanţă	2014	2015	2016	2017	2018	Suma
2.1. Elaborare cărţi/ monografii/ tratate	45.25	45.25	109.	142.25	159.25	501
2.2. Articole publicate în reviste de specialitate	387.5	437.12	405.62	377.54	265.86	1873.64
2.3. Conferinţe invitate/ lucrări de sinteză prezentate la manifestări organizate sub egide ştiinţifice recunoscute, lucrări comunicate	0	6	0	0	0	6
2.4. Lucrări publicate în volumele conferinţelor	72.5	267.5	240.82	392.5	207.18	1180.5
2.5. Brevete acordate, produse omologate	0	0	0	0	0	0
2.6. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie	0	0	0	118.75	112.5	231.25
2.7. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare încheiate cu institute de cercetare, companii, regii, societăţi comerciale	0	15.43	41.93	11.37	9.3	78.03
2.8. Creaţii de arhitectură, urbanism, restaurări, design şi arte plastice efectuate prin Universitate	0	0	0	0	0	0
2.9. Citări în reviste cotate ISI sau indexate în baze de date internaţionale (BDI)	214	343	486	591	754	2388
2.10. Finalizare teză de doctorat	0	0	0	0	0	0
2.11. Elaborare standarde	0	0	0	0	0	0
TOTAL	719.25	1114.3	1283.37	1633.41	1508.09	6258.42

Criteriul 3. Recunoaşterea naţională şi internaţională

Indicatori de performanţă	2014	2015	2016	2017	2018	Suma
3.1. Profesor invitat pentru prelegeri la univ. de prestigiu	0	0	0	0	0	0
3.2. Membru în academii (Academia Română, Academia de Ştiinţe Tehnice, Academia de Ştiinţe Agricole şi Silvice, Academia Oamenilor de Ştiinţă etc.)	0	0	0	0	0	0
3.3. Doctor Honoris Causa	0	0	0	0	0	0
3.4. Membru în societăţi ştiinţifice şi profesionale (AGIR, asociațiile absolvenților etc.)	10	10	20	30	30	100
3.5. Membru în comisii de doctorat	0	0	0	0	0	0
3.6. Membru în colective de redacţie ale revistelor	10	70	120	50	50	300
3.7. Membru în comitete științifice naționale/ internaţionale/ de program (la congrese, conferinţe etc.)	30	60	60	180	100	430
3.8. Membru în echipe de expertizare / evaluare a cercetării ştiinţifice (proiecte CNCS, PNCDI II, FP7, Phare; centre de cercetare etc.)	0	0	0	15	15	30
3.9. Membru în echipe de expertizare (evaluare) a procesului educaţional (ARACIS, EUA etc.)	0	0	0	0	0	0
3.10. Membru în consilii naţionale de specialitate	0	0	0	0	0	0
3.11. Organizator de manifestări ştiinţifice naţionale / internaţionale / sesiuni invitate	0	15	0	15	0	30
3.12. Referent ştiinţific / expert naţional şi internaţional (pentru reviste, congrese etc.)	480	523	757	734	1220	3714
3.13. Membru în comisii de concurs pentru posturi didactice universitare	0	0	0	0	0	0
3.14. Membru în jurii, comisii, concursuri profesionale	0	0	0	0	0	0
3.15. Cercetător invitat pentru activităţi de cercetare în universităţi/firme de prestigiu	0	0	0	0	0	0
3.16. Cadru didactic invitat în programe ERASMUS (prelegeri)	0	0	0	0	0	0
3.17.Cadru didactic care gestioneaza acorduri bilaterale ERASMUS	0	0	0	0	0	0
3.18. Premii	120	40	0	0	0	160
TOTAL	650	718	957	1024	1415	4764

Criteriul 4. Activitatea cu studenţii

Indicatori de performanţă	2014	2015	2016	2017	2018	Suma
4.1. Conducere cercuri ştiinţifice studenţeşti	6	6	9	6	6	33
4.2. Pregătire pentru concursuri profesionale (pentru fazele naţională şi internaţională)	0	0	0	0	0	0
4.3. Conducere lucrări de absolvire[2)], licenţă (diplomă), disertaţie, doctorat ((inclusiv cotutelă, membri în echipa de îndrumare)	24	25	26	30	42	147
4.4. Îndrumare ani de studii	5	5	5	5	5	25
4.5. Organizarea de excursii de studii, prezentarea ofertei educaționale a universității în licee	0	0	0	35	35	70
4.6. Activități cu studenți ERASMUS	0	0	0	0	0	0
TOTAL	35	36	40	76	88	275

Criteriul 5. Activitatea în comunitatea academică

Indicatori de performanţă	2014	2015	2016	2017	2018	Suma
5.1. Participare la mese rotunde, dezbateri organizate la nivelul facultății/ universității etc.	**10**	**1**	**0**	**2**	**1**	**18**
5.2. Activitate în comisii	**25**	**58**	**33**	**37**	**37**	**183**
5.3. Coordonare programe de studii de licență/ masterat/ postuniversitare de formare continuă	**0**	**0**	**5**	**5**	**5**	**15**
TOTAL	**35**	**59**	**38**	**44**	**43**	**216**

Criteriul 6. Evaluarea de către Directorul de Departament

2014	2015	2016	2017	2018	Suma
50	50	50	50	50	**250**

TOTAL PUNCTAJ

Indicatori de performanţă	2014	2015	2016	2017	2018	Suma
Activitatea didactica	**195.86**	**178.27**	**139.63**	**107.68**	**119.83**	**741.27**
Activitatea de cercetare stiintifica	**719.25**	**1114.3**	**1283.37**	**1633.41**	**1508.09**	**6258.42**
Recunoasterea nationala si internationala	**650**	**718**	**957**	**1024**	**1415**	**4764**
Acticitatea cu studentii	**35**	**36**	**40**	**76**	**88**	**275**
Activitatea in comunitatea academica	**35**	**59**	**38**	**44**	**43**	**219**
Evaluarea de Directorul de Departament	**50**	**50**	**50**	**50**	**50**	**250**
TOTAL	**1685.11**	**2155.57**	**2508**	**2935.09**	**3223.92**	**12507.69**

Semnătura

Data 29.10.2019

UNIVERSITATEA TEHNICĂ „GHEORGHE ASACHI” DIN IAŞI

FACULTATEA DE Inginerie Electrică, Energetică şi Informatică Aplicată

DEPARTAMENTUL de Energetică

FIŞA DE AUTOEVALUARE
Şi DE EVALUARE DE CĂTRE DIRECTORUL DE DEPARTAMENT - 2014

(pentru activitatea în departamentul de încadrare conform contractului de muncă)

Numele şi prenumele cadrului didactic evaluat	**Grigoras Gheorghe**
Funcţia didactică	**Conf. dr. ing.**

Criteriul de evaluare	Indicatori de performanţă (cu explicitarea modului de calcul a punctajului pentru fiecare realizare, conf. nexa 1)	Punctaj
1. Activitate didactică* (minimum: • 30 puncte prof.; • 15 puncte conf.; • 10 puncte ș.l.; • 5 puncte as.)	**1.1.** Predare discipline/ cursuri noi în planul de învăţământ, pe direcţii neelaborate anterior **Realizări:** Tehnici moderne de conducere – master MSE Optimization Techniques in Electrical Engineering – an III E EEC	**20**
	1.2. Elaborare manuale universitare (inclusiv în sistem e-learning) **Realizări:** 1.2.1. **Gh. Grigoraş**, Metode numerice in inginerie. Aplicatii in Matlab, Vol. I, Editura PIM, 2010, **230 pag**., ISBN: 978-606-13-0175-1 . 1.2.2. **Gh. Grigoraş,** Metode numerice in inginerie. Aplicatii in Matlab, Vol. II, Vol. I, Editura PIM, 2012, **124 pag**. ISBN: 978-606-13-0770-8.	**85,46**
	1.3. Elaborare suporturi de cursuri, seminarii, laboratoare, proiecte **Realizări:** 1.3.1. **Gh. Grigoras**, Optimization Techniques in Electrical Engineering, Suport de curs, format electronic **(120 pag)** 1.3.2. **Gh. Grigoras**, Fl. Scarlatache, Metode numerice. Aplicatii practice, Editura PIM, 2014, 173 pag., ISBN: 978-606-13-2143-8.	**5,40**
	1.4. Elaborare manuale şi alte materiale pentru învăţământul preuniversitar **Realizări:**	**0**
	1.5. Modernizare tehnologie didactică **Realizări:** **Laborator Tehnici moderne de conducere – master MSE. Programe soft** 1.5.1. Reglarea tensiunii in rețetele electrice. Modelarea fuzzy a funcționarii unui comutator de ploturi (**Gh. Grigoras**, Fl. Scarlatache) Utilizarea tehnicilor de clustering in sistemele de distribuție. Implementare in Matlab. (**Gh. Grigoras**, Fl. Scarlatache) Sistem expert - fuzzy in estimarea pierderilor de putere / energie in rețelele de distribuție (**Gh. Grigoras)** Corelarea puterilor din nodurile retelelor de distributile folosind modele fuzzy (**Gh. Grigoras)** **Laborator Metode numerice în inginerie licenta ISE+ME. Biblioteca de functii Matlab pentru implementarea metodelor numerice in inginerie (Gh. Grigoras)** 1.5.2. Metode de aproximarea functiilor prin interpolare polinomiala Metode de proximarea functiilor prin curbe spline Metode de aproximarea functiilor prin regresie polinomiala – metoda celor mai mici patrate Metode de aproximare a radacinilor ecuatiilor algebrice si transcendente Metode directe de rezolvare a sistemelor de ecuatii liniare Metode iterative de rezolvare a sistemelor de ecuatii liniare Metode iterative de rezolvare a sistemelor de ecuatii neliniare Metode numerice pentru derivare Metode numerice pentru integrare Metode numerice pentru determinarea vectorilor și valorilor proprii Metode numerice pentru rezolvarea ecuatiilor diferențiale **Laborator Optimization Techniques in Electrical Engineering EEC** (**Gh. Grigoras**, Fl. Scarlatache) Using MatLab software package to solve optimization problems	**85**

	Optimization criteria Simplex-primal Algorithm in solving linear programming problems Dynamic programming Application of nonlinear programming without restrictions in solving of optimization proble Reduced gradient method	
Total punctaj Criteriu 1		**195,86**
2. Cercetarea ştiinţifică (minimum: • 150 puncte prof.; • 100 puncte conf.; • 60 puncte ș.l.; • 30 puncte asist.)	**2.1.** Elaborare cărţi/ monografii/ tratate **Realizări:** 2.1.1. **Gh. Grigoras**, Gh. Cartina, The Impact of the Fuzzy Modeling in Electric Distribution Systems, Ed. Lambert Academic Publishing, Germany, 2011, ISBN: 978-3-8473-2793-6 (**165 pag.**) 2.1.2. **Gh. Grigoras**, Gh. Cartina, E.C. Bobric, Trends and Directions for Energy Saving in Electric Networks, capitol in cartea Management of Techological Innovation in Developing and Developed Countries, Ed. INTECH, Croatia, 2012, ISBN:978-953-51-0365-3 (**24 pag**)	**45,25**
	2.2. Articole publicate în reviste de specialitate **Realizări:** **a. Reviste cotate ISI (210 puncte)** 2.2.1. Bobric E.C., Cârţină Gh., **Grigoraş Gh.,** Fuzzy Techniques used for Energy Losses Determination in Medium and Low Voltage Networks, Journal of Electronics and Electrical Engineering, Lituania, Nr. 2 (90), 2009, pp. 95 – 98, ISSN: 1392 – 1215. 2.2.2. Bobric E.C., Cârţină Gh**., Grigoraş Gh.,** Clustering Techniques in Load Profile Analyze for Distribution Stations, Journal of Advances in Electrical and Computer Engineering, Romania, Nr.1, 2009, pp. 63 – 66, ISSN: 1582 – 7445. 2.2.3. M. Istrate M., **Gh. Grigoraş**, Energy Consumption Estimation in Water Distribution Systems using Fuzzy Techniques, Environmental Engineering and Management Journal, Romania, Vol. 9, No. 2, February 2010, pp. 249 – 256, ISSN: 1582 – 9596. 2.2.4. **Gh. Grigoraş**, Gh. Cârţină, E. C. Bobric, Strategies for Power/Energy Saving in Distribution Networks, Advances in Electrical and Computer Engineering, Vol. 10, No. 2, pp. 63 - 66, 2010, ISSN: 1582-7445, e-ISSN 1844-7600, doi: 10.4316/AECE.2010.02010 2.2.5. **Gh. Grigoras**, D. Comanescu, G. Cartina, C. Barbulescu, Optimal Operation of a Hydro Cascade using Typical Loading Profiles, International Journal of Academic Research, vol. 3, no. 2, 2011, pp. 58 – 63, ISSN: 2075-4124, (www. ijar.lit.az). 2.2.6. **Gg. Grigoras**, M. Istrate, An Efficient Clustering Method in Evaluation of the Electric Energy Consumption from Water Hydrophore Stations, International Review on Modelling and Simulations, Italia, Vol. 4, no. 2, 2011, pp. 813–818. 2.2.7. Rotaru Fl, Chicco G., **Grigoras Gh**., Cartina Gh., Two-stage distributed generation optimal sizing with clustering-based node selection, International Journal of Electrical Power & Energy Systems, Volume 40, Issue 1, September 2012, Pages 120–129 2.2.8. **Grigoras Gh.**, Cartina Gh., The fuzzy correlation approach in operation of electrical distribution systems, The International Journal for Computation and Mathematics in Electrical and Electronic Engineering Vol. 32 No. 3, 2013, pp. 1044-1066, DOI 10.1108/03321641311306060. 2.2.9. **Grigoras Gh.**, Barbulescu C., Human errors monitoring in electrical transmission networks based on a partitioning algorithm, Electrical Power and Energy Systems 49 (2013) 128–136, http://dx.doi.org/10.1016/j.ijepes.2012.12.016. **b. Reviste cotate BDI (177,5 puncte)** 2.2.10. **Gh. Grigoras**, G. Cartina, M. Istrate, Fl. Rotaru, The Efficiency of the Clustering Techniques in the Energy Losses Evaluation from Distribution Networks, International Journal of Mathematical Models and Methods in Applied Sciences, vol. 5, no. 1, 2011, pp. 133 – 140, ISSN: 1998-0140. 7,5 p 2.2.11. **Gh. Grigoras**, G. Cartina, Improved Fuzzy Load Models by Clustering Techniques in Distribution Network Control, International Journal on Electrical Engineering and Informatics, School of Electrical Engineering and Informatics, Institut Teknologi Bandung, Indonezia, Vol. 3, no. 2, 2011, pp. 207 – 216. 2.2.12. **Gh. Grigoras**, D. Comanescu, G. Cartina, Solutions Regarding to Reducing of Electrical Consumptions in Hydropower Plants, Buletinul Institului Politehnic din Iasi, Seria Electrotehncica, Energetica, Tomul LVI(LX), No. 1, 2011, pp. 133 – 140. 10 p 2.2.13. **Gh. Grigoras**, D. Comanescu, G. Cartina, Using of a Hybrid Method in the Loading Profiles Determination of a Hydropower Cascade, Buletinul Institului Politehnic din Iasi, Seria Electrotehncica, Energetica, Tomul LVII(LXI), No. 2, 2011, pp. 118-127. 2.2.14. **Gh. Grigoras**, C. Barbulescu, G. Cartina, D. Comanescu, A Comparative Study Regarding Efficiency of the Hierarchical Clustering Techniques in Typical Load Profiles Determination, Acta Electrotehnica, vol. 52, no. 5, 2011, pp. 184 – 188. 2.2.15. C. Barbulescu, **Gh. Grigoras**, G. Cartina, Fl. Rotaru, Study Based on Clustering Techniques Regarding Accidental Events from The South-East of the Transport System from Romania, Acta Electrotehnica, vol. 52, no. 5, 2011, pp. 46 – 49. 2.2.16. .Fl. Scarlatache, **Gh. Grigoras**, G. Cartina, An Algorithm based on the Clustering Techniques for the Optimal Placement of the Distributed Generation Sources in Distribution Systems, Buletinul Institului Politehnic din Iasi, Seria Electrotehncica, Energetica, Tomul LVI(LX), No. 1, 2012. 2.2.17. V. Alexandrescu, G. Cârțină, **Gh. Grigoras**, On Distribution Network Operation Analysis, Buletinul Institului Politehnic din Iasi, Seria Electrotehncica, Energetica, Tomul LVII(LXI), No. 1, 2012. 2.2.18. Fl. Scarlatache, **Gh. Grigoras**, G. Cartina, Using of Clustering Techniques for Placement of Distributed Generation Sources in Electrical Distribution Systems, Buletinul AGIR, No. 3, iunie – august, pp. 1 - 6, 2012. 2.2.19. **Gh. Grigoras**, G. Cartina, Impact of the Fuzzy Typical Load Profiles in Distribution Network Control, Journal of Electrical and Control Engineering, vol. 2, no. 1, 2012, pp. 8 – 14. 2.2.20. **Gh. Grigoras**, C. Bărbulescu, G. Cartina, D. Comănescu, Human Errors Monitoring in Electrical Transmission Networks, Journal of Energy and Power Engineering, vol. 6, no. 3, pp. 425 – 428. 2.2.21. **Gh. Grigoras**, G. Cartina, Impact of the fuzzy modeling in operation of electric distribution	**387,5**

	systems, WSEAS Transactions on Circuits and Systems, vol. 11, no. 4, pp. 105 – 114, 2012. 2.2.22. Fl. Scarlatache, **Gh. Grigoraş**, An Approach Regarding the Placement of Distributed Generation Sources in Electric Distribution Systems using Hurwitz Criterion, Buletinul Institului Politehnic din Iasi, Seria Electrotehnica, Energetica, Tomul LVIII(LXII), No. 4, pp 109 - 117, 2012. 2.2.23. **Gh. Grigoras**, Fl. Scarlatache, Clustering to Peak Load Estimation in Transformer Substations from Electric Distribution Systems, Buletinul Institului Politehnic din Iasi, Seria Electrotehnica, Energetica, Tomul LIX(LXIII), No. 3, pp 141 - 149, 2013. 2.2.24. **Gh. Grigoras**, V Alexandrescu, G Cartina, Fl Scarlatache, Estimation of Power/Energy Losses in Electric Distribution Systems based on an Efficient Method, TELKOMNIKA, Vol. 11, No. 9, September 2013, pp. 4854-4860, DOI: 10.11591/telkomnika.v11i9.2889. 2.2.25. **Gh. Grigoras**, Fl. Scarlatache, Estimation of power/energy losses in electric networks using Artificial Intelligence techniques, Energetica, No. 5, Mai 2013, pp.	
	2.3. Conferinţe invitate/ lucrări de sinteză prezentate la manifestări organizate sub egide ştiinţifice recunoscute, lucrări comunicate **Realizări:**	**0**
	2.4. Lucrări publicate în volumele conferinţelor **Realizări:** **a. Volume indexate ISI (30 puncte)** 2.4.1. **Gh. Grigoras**, Fl. Scarlatache, Energy Losses Estimation in Electrical Distribution Networks with a Decision Trees-based Algorithm, 2013 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2013), Bucharest, Romania, 23 – 25 May 2013. 2.4.2. Fl. Scarlatache, **Gh. Grigoras**, The Influence of the DG Sources in the Optimal Operation of the Electrical Distribution Systems, 2013 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2013), Bucharest, Romania, 23 – 25 May 2013. **b. Volume indexate BDI (25 puncte)** 2.4.3. **Gh. Grigoraş**, Fl. Scarlatache, C. Barbulescu, Analysis of incidents caused by human factor in transmission power grids, 5th International Conference on Modern Power Systems, MPS 2013, Cluj, România, 2013. 2.4.4. **Gh. Grigoraş**, Fl. Scarlatache, C. Barbulescu, Optimal power flow analysis using the correlation method for estimation of nodal loads, 5th International Conference on Modern Power Systems, MPS 2013, Cluj, România, 2013. 2.4.5. **Gh. Grigoraş**, M. Istrate, Fl. Scarlatache, Electrical Energy Consumption Estimation in Water Distribution Systems Using a Clustering Based Method, ECAI 2013 - International Conference – 5th Edition Electronics, Computers and Artificial Intelligence 27 June -29 June, 2013, Piteşti, ROMÂNIA, DOI: 10.1109/ECAI.2013.6636174 **c. Volume neindexate (17,5 puncte)** 2.4.6. **Gh. Grigoraş**, E.C. Bobric, Clustering Based Approach for Customers' Classification from Electrical Distribution Systems, 6th International Conference on Energy and Environment CIEM 2013, Bucharest, Romania, 2013. 2.4.7. Fl. Scarlatache, C. Barbulescu, **Gh. Grigoras**, G. Cartina, Influence of Coordination between Distribution Generation Sources on Optimal Voltage Control, International Conference on Condition Monitoring, Diagnosis and Maintenance - CMDM 2013, Bucharest, Romania, 2013. 2.4.8. **Gh. Grigoras**, C. Barbulescu, Fl. Scarlatache, Clustering-based algorithm for optimal selection of pilot nodes in secondary voltage control, International Conference on Condition Monitoring, Diagnosis and Maintenance - CMDM 2013, Bucharest, Romania, 2013.	**72,5**
	2.5. Brevete acordate, produse omologate **Realizări:** 2.5.1. ..... 2.5.2.	
	2.6. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie **Realizări:**	**0**
	2.7. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare încheiate cu institute de cercetare, companii, regii, societăţi comerciale **Realizări:**	**0**
	2.8. Creaţii de arhitectură, urbanism, restaurări, design şi arte plastice **Realizări:**	**0**
	2.9. Citări în reviste cotate ISI sau indexate în baze de date internaţionale (BDI) **Realizări:** a. **Citări în reviste cotate ISI (145 puncte)** 2.10.1. 1. Lucrarea *Peak Load estimation in distribution networks by fuzzy regression approach*, Gh. Cârtina, V. Alexandrescu, **Gh. Grigoras**, M. Moshe, a fost citata in lucrarea: *A Frequency Domain Approach to Characterize and Analyze Load Profiles*, IEEE Transactions on Power Systems, vol. 99, 08 November 2011. 2.10.2. 2. Lucrarea *Fuzzy Techniques used for Energy Losses Determination in Medium and Low Voltage Networks*, Bobric E.C., Cârţină Gh., **Grigoraş Gh**., Journal of Electronics and Electrical Engineering, Lituania, Nr. 2 (90), 2009, pp. 95 – 98, a fost citată în lucrarile: *The Adaptive Signal Processing Scheme for Power Quality Conditioning Applications Based on Active Noise Control (ANC)* publicată în Journal of Electronics and Electrical Engineering, Nr. 8, 2009, ISSN: 1392 – 1215 *Model of Ventilation System Drive with Fuzzy Controller* publicată în Journal of Electronics and Electrical Engineering, Nr. 10, 2010, ISSN: 1392 – 1215 *Fuzzy Controller of two-mass system* publicata în Journal of Electronics and Electrical Engineering, Nr.	**214**

10, 2011, ISSN: 1392 – 1215, ISSN: 1392 – 1215

Application of classifier system and co-evolutionary algorithm in optimization of medium-voltage distribution networks post-fault configuration publicata în Journal of Electronics and Electrical Engineering, Nr. 9, 2011, ISSN: 1392 – 1215.

2.10.2. 3. Lucrarea, *Energy Consumption Estimation in Water Distribution Systems using Fuzzy Techniques*, M. Istrate M., **Gh. Grigoraş,** Environmental Engineering and Management Journal, Romania, Vol. 9, No. 2, February 2010, pp. 249 – 256 a fost citată în lucrarile:

Water parameters evolution in a hydroelectric site, Environmental Engineering and Management Journal, vol. 9, no. 11, pp. 1539-1542, 2010.

Fuzzy synthetic evaluation of weihe water quality, Environmental Engineering and Management Journal, vol. 10, no. 10, pp. 1477-1484, 2011.

2.10.2.4. Lucrarea *Strategies for Power/Energy Saving in Distribution Networks*, Gh. Grigoraş, Gh. Cârţină, E. C. Bobric, Advances in Electrical and Computer Engineering, Vol. 10, No. 2, pp. 63 - 66, 2010 a fost citată în lucrarile:

Power Grids' Dinamic Enlargement calculus using Petri Nets, Advanced in Electrical and Computer Engineering, Vol. 11, no. 2, pp.73-78.

An Optimal Initial Partitioning of Large Data Model in Utility Management Systems, Advanced in Electrical and Computer Engineering, Vol. 11, no. 4, pp.41-46, 2011

2.10.2.5. Lucrarea *Two-stage distributed generation optimal sizing with clustering-based node selection*, Rotaru Fl, Chicco G., **Grigoras Gh**., Cartina Gh., International Journal of Electrical Power & Energy Systems a fost citată în lucrarile:

A dynamic fuzzy interactive approach for DG expansion planning, International Journal of Electrical Power & Energy Systems, Volume 43, Issue 1, December 2012, Pages 1094–1105.

A Sustainability-Oriented Multiobjective Optimization Model for Siting and Sizing Distributed Generation Plants in Distribution Systems, Mathematical Problems in Engineering, Vol. 2013, Article ID 291930, http://dx.doi.org/10.1155/2013/291930.

Optimal Distributed Generation Placement in Power Distribution Networks: Models, Methods, and Future Research, IEEE TRANSACTIONS ON POWER SYSTEMS, Vol. 28, No. 3, August 2013.

Decision making of a virtual power plant under uncertainties for bidding in a day-ahead market using point estimate method, International Journal of Electrical Power & Energy Systems, Vol. 44, Issue 1, January 2013, Pages 88–98.

Multiple-distributed generation planning under load uncertainty and different penetration levelsInternational , Journal of Electrical Power & Energy Systems Vol. 44, Issue 1, January 2013, Pages 88–98.

Optimal siting of DG units in power systems from a probabilistic multi-objective optimization perspective, International Journal of Electrical Power & Energy Systems, Vol. 51, October 2013, Pages 14–26.

Sensitivity analysis to connect distributed generation, International Journal of Electrical Power & Energy Systems, Vol. 46, March 2013, Pages 145–152.

Optimal siting of DG units in power systems from a probabilistic multi-objective optimization perspective, International Journal of Electrical Power & Energy Systems, Vol. 53, December 2013, Pages 450–467.

A profit-centric strategy for distributed generation planning considering time varying voltage dependent load demandInternational, Journal of Electrical Power & Energy Systems, Vol. 44, Issue 1, January 2013, Pages 168–178.

Optimal wind turbine sizing to minimize energy loss, International Journal of Electrical Power & Energy Systems, Vol. 53, December 2013, Pages 656–663

Optimal siting of DG units in power systems from a probabilistic multi-objective optimization perspective, Electrical Power and Energy Systems 51 (2013) 14–26.

Hierarchical Agglomerative Clustering Algorithm method for distributed generation planning, International Journal of Electrical Power & Energy Systems, Vol. 56, March 2014, Pages 259–269.

Optimal sizing of hybrid power systems using power pinch analysis, Journal of Cleaner Production Volume 71, 15 May 2014, Pages 158–167.

Book Review: Integration of Distributed Generation in the Power System, M. Bollen, F. Hassan. Wiley–IEEE Press, New Jersey (2011), International Journal of Electrical Power & Energy Systems, Vol. 48, June 2013, Pages 69–70.

Multi-objective transmission expansion planning considering minimization of curtailed wind energy, International Journal of Electrical Power & Energy Systems, Volume 65, February 2015, Pages 348–356.

Allocation of distributed generation using proposed DMSP approach based on utility and customers aspects under deregulated environment, International Journal of Electrical Power & Energy Systems Volume 68, June 2015, Pages 159–169.

2.10.2.6. Cartea *Tehnici de clustering în modelarea fuzzy. Aplicații în energetică,* Cârţină G, Grigoraş G, Bobric EC a fost citată în lucrarea:

Overview and performance assessment of the clustering methods for electrical load pattern grouping, Energy, 42 pp. 68-80, 2012.

2.10.2.7. Lucrarea *Clustering Techniques in Load Profile Analyze for Distribution Stations*, Bobric E.C., Cârţină Gh., Grigoraş Gh., Journal of Advances in Electrical and Computer Engineering, Romania, Nr.1, 2009, pp. 63 – 66, ISSN: 1582 – 7445 a fost citată în lucrarile:

Morphometrical analysis of daily load graphs, International Journal of Electrical Power & Energy Systems, Volume 42, Issue 1, November 2012, Pages 721–727.

The Impact of the Load Side Parameters on PC Cluster's Harmonics Emission, Advances in Electrical and Computer Engineering, Volume 11, Issue 1, Year 2011, On page(s): 103 – 110.

Least Squares Modeling of Voltage Harmonic Distortion Due to PC Cluster Operation, Advances in

Electrical and Computer Engineering, Volume 13, Issue 4, Year 2013, On page(s): 133 – 138
Optimal Clustering of Time Periods for Electricity Demand-Side Management, IEEE Transactions on Power Systems, Volume 28, Issue 4, Year 2013, On page(s): 3842 – 3851.

2.10.2.8. Lucrarea *Clustering techniques for energy losses evaluation in distribution networks*, IEEE Bucharest Power Tech Conference, 2009, a fost citată în lucrarea:
Gray theory based energy saving potential evaluation and planning for distribution networks, Electrical Power and Energy Systems 57 (2014) 298–303.

2.10.2.9. *Evaluation of the performances of efficient transformers in distribution networks by fuzzy techniques*, 12th International Conference on Optimization of Electrical and Electronic Equipment OPTIM 2010, pp. 1281-1284, a fost citată în lucrarea:
A literature survey on Smart Grid distribution: an analytical approach, Journal of Cleaner Production, Vol. 65, February, 2014, Pages 202–216.

2.10.2.10. *Use of fuzzy techniques in reliability assessment of electric distribution systems*. in Proceedings of IEEE 16th international conference on harmonics and quality of power (ICHQP) (pp. 29–33), a fost citata in lucrarea:
Novel expert system for defining power quality compensators, Expert Systems with Applications Volume 42, Issue 7, 1 May 2015, Pages 3562–3570.

a. **Citări în reviste cotate BDI (69 puncte)**

2.10.2.10. Lucrarea, *Strategies for Power/Energy Saving in Distribution Networks*, Gh. Grigoraş, Gh. Cârţină, E. C. Bobric, Advances in Electrical and Computer Engineering, Vol. 10, No. 2, pp. 63 - 66, 2010 a fost citată în lucrarile:
Optimization Strategies to Increase Electrical Distribution Networks Robustness 20kV and 110 Kv from County Mures, Scientific Bulletin of the „Petru Maior" University of Tîrgu Mureş Vol. 7 (XXIV), No. 2, 2010.
A Modified Optimization Model for the Location Selection of Distribution Transformer Used in Rural Power Network, JOURNAL OF COMPUTERS, Vol. 9, No. 4, April 2014, pp. 875 – 882.
An Energy-aware Routing Mechanism for Latency-sensitive Traffics, International Journal of Grid and Distributed Computing, Vol.6, No.6 (2013), pp.23-36, http://dx.doi.org/10.14257/ijgdc.2013.6.6.03.
Short term load forecasting using support vector machines for different consumer types, Journal on Processing and Energy in Agriculture, 2012, vol. 16, no. 3, pp. 128-131

2.10.2.11. Lucrarea *The Efficiency of the Clustering Techniques in the Energy Losses Evaluation from Distribution Networks*, **Gh. Grigoras**, G. Cartina, M. Istrate, Fl. Rotaru International Journal of Mathematical Models and Methods in Applied Sciences, vol. 5, no. 1, 2011, pp. 133 – 140 a fost citată în lucrarea:
Time Evolution of the Edge Length Distribution of Networks Generated by Random Transports on One-Dimensional Lattice, International Journal of Mathematical Models and Methods in Applied Sciences, vol. 5, no. 3, 2011, ISSN: 1998-0140.
Performance Comparison of Self-Organizing Maps and k-means Clustering Techniques for Atmospheric Circulation Classification, INTERNATIONAL JOURNAL of ENERGY and ENVIRONMENT, Volume 8, 2014, pp. 171-180.

2.10.2.12. Cartea *Tehnici de clustering în modelarea fuzzy. Aplicații în energetică,* Cârţină G, Grigoraş G, Bobric EC a fost citată în lucrarea:
Clustering Methods For Electrical Load Pattern Classification, Scientific Bulletin of the Electrical Engineering Faculty, Year 10 No. 3 (14), ISSN 1843-6188.

2.10.2.13. Cartea *Optimal Operation and Planning of Power Systems,* Cârţină Gh, Grigoraş Gh, Grigoras Gh. a fost citată în lucrarea:
Planning and Management of the Power System using DSATOOLS' Software, Analele Universității din Oradea, Fascicola Management and Technological Engineering, Vol. IX (XIX), 2010, Nr. 1, pp. 4.36-4.39.

2.10.2. 14. Lucrarea *Using k-means clustering method in determination of the optimal placement of distributed generation sources in electrical distribution systems*, Fl. Scarlatache, Gh. Grigoras, G. Chicco, Gh. Cartina, 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), 2012, a fost citata în lucrarea:
Clustering Analysis and Its Application in Electrical Distribution System, International Journal of Electrical, Electronics and Computer Systems (IJEECS), Vol.1, No. 1, 2013.

2.10.2.15. Lucrarea *An Approach Regarding the Placement Of Distributed Generation Sources In Electric Distribution Systems Using Hurwitz Criterion*, Fl. Scarlatache, Gh. Grigoras, Buletinul Institului Politehnic din Iasi, Seria Electrotehnica, Energetica, Tomul LVIII(LXII), No. 4, pp 109 - 117, 2012, a fost citata în lucrarea:
Clustering Analysis and Its Application in Electrical Distribution System, International Journal of Electrical, Electronics and Computer Systems (IJEECS), Vol.1, No. 1, 2013.

2.10.2. 16. Lucrarea *Two-stage distributed generation optimal sizing with clustering-based node selection*, Rotaru Fl, Chicco G., Grigoras Gh., Cartina Gh., International Journal of Electrical Power & Energy Systems, 2012, a fost citata în lucrarile:
Clustering Analysis and Its Application in Electrical Distribution System, International Journal of Electrical, Electronics and Computer Systems (IJEECS), Vol.1, No. 1, 2013.
Use of Telecom Energy for Smart Grid, Muhammad Usman, Master of Science in Electric Power Engineering, Norwegian University of Science and Technology, September 2013.
Energy Productionand Management in the 21st Century, Vol 1, http://books.google.ro/books?id=2nj4AgAAQBAJ&pg=PA453&lpg=PA453&dq=Twostage+d

istributed+generation+optimal+sizing+with+clusteringbased+node+selection&source=bl&ots=dR2RFyEqcf&sig=YVOkc1SivLg0ZeZVw1gkuCW6k24&hl=en&sa=X&ei=AS6MU5zZLsWROKXkgKgD&redir_esc=y#v=onepage&q=Twostage%20distributed%20generation%20optimal%20sizing%20with%20clustering-based%20node%20selection&f=fals.

Whole sale Distributed Generation (WDG) Catalogue of Benefits, http://www.clean-coalition.org/site/wp-content/uploads/2013/07/WDG-Catalogue-of-Benefits-04_jb-26-July-2013.pddf.

A Review on Models and Methods for Optimal Placement of Distributed Generation in Power Distribution System, International Journal of Education and applied research (IJEAR), Vol. 4, Issue Spl-1, Jan - June 2014.

2.10.2. 17. Lucrarea *Using K-Means Clustering Method in Determination of the Energy Losses Levels from Electric Distribution Systems,* Gh. Grigoraş, Gh. Cârţină, Fl. Rotaru, Proc. of the 12th WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, 2010, Timisoara, Romania, pp. 52 – 56, a fost citata în lucrarea:

Clustering Analysis and Its Application in Electrical Distribution System, International Journal of Electrical, Electronics and Computer Systems (IJEECS), Vol.1, No. 1, 2013.

Performance Comparison of Self-Organizing Maps and k-means Clustering Techniques for Atmospheric Circulation Classification, International Journal of Energy, Environment and Economics Vol. 8, 2014, pp. 171-180.

2.10.2. 18. Lucrarea *Using of Clustering Techniques in Optimal Placement of Phasor Measurements Units",* Gh. Grigoras G., Gh. Cartina, M. Gavrilas, Proceedings of the 9th WSEAS/IASME International Conference on Electric Power Systems, High Voltages, Electric Machines, Genova, Italy, pp.104-108, a fost citata în lucrarea:

Power system observability with minimum phasor measurement units placement, International Journal of Engineering, Science and Technology Vol. 5, No. 3, 2013, pp. 1-18.

Optimal Placement Methods of Phasor Measurements Units, PH.D. Thesis, Nicolas P. Theodorakatos, National Technical University Athena, Faculty of Electrical Engineering and Computer Engineering, 2012.

2.10.2.19. Lucrarea *Fuzzy Techniques used for Energy Losses Determination in Medium and Low Voltage Networks*, Bobric E.C., Cârţină Gh., **Grigoraş Gh**., Journal of Electronics and Electrical Engineering, Lituania, Nr. 2 (90), 2009, pp. 95 – 98, a fost citată în lucrarea:

Optimisation of Distribution Network Configuration with the Aid of Co-Evolutionary Algorithm with Regard for Reliability Coefficients Varying During Operation of Network Elements, Universal Journal of Electrical and Electronic Engineering 2(3): 97-104, 2014, DOI: 10.13189/ujeee.2014.020301.

2.10.2.20. Lucrarea *Missing Data Treatment of the Load Profiles in Distribution Networks*, **Grigoraş Gh**., Cârţină Gh., Bobric E.C., IEEE PowerTech Conference, Bucharest, 2009, a fost citată în lucrarea:

Load Profiles analysis for Electricity Market, Computational Methods in Social Sciences, Vol. I, No. 2, 2013, pp. 30-38.

2.10.2.21. Lucrarea *"Power System Analysis Using MATLAB Toolboxes*, Cârţină Gh., Grigoraş Gh., Bobric E.C., International Conference on ElectroMechanical & Power System, pp.305-308,2007 a fost citată în lucrarea:

Simulation Techniques of Electrical Power System Stability Studies Utilizing Matlab/Simulink, International Journal Of Engineering Sciences & Research Technology, Vol. 3, No. 3, March, 2014.

MATLAB/SIMULINK Simulation Tool for Power Systems, International Journal of Power System Operation and Energy Management, Volume-1, Issue-2, 2011.

2.10.2.22. Lucrarea *Clustering Techniques in Load Profile Analyze for Distribution Stations*, Bobric E.C., Cârţină Gh., Grigoraş Gh., Journal of Advances in Electrical and Computer Engineering, Romania, Nr.1, 2009, pp. 63 – 66, ISSN: 1582 – 7445 a fost citată în lucrarea:

Retail Pricing and Day-Ahead Demand Response in Smart Distribution Networks, Intelligence Systems in Electrical Engineering, No. 4, 2013, pp. 23 -32.

De Frank W. Püschel, *Energieeffizienz-Steigerungspotentiale in großen Anlagebeständen*, Josef Eul Verlag GmbH, Lohmar – Koln, 2011.

2.10.2.24. Lucrarea *An Efficient Clustering Method in Evaluation of the Electric Energy Consumption from Water Hydrophore Stations*, Gh. Grigoras, M. Istrate, International Review on Modelling and Simulations, Italia, Vol. 4, no. 2, 2011, pp. 813–818 a fost citata in lucrarile:

Modified Fast Codebook Model, International Review on Computers & Software Vol. 8, No.1, 2013.

Using Multi-Vector DBSCAN Algorithm to Cluster the Distribution of Urban Water Point, International Review on Computers & Software Vol. 8, No.1, 2013.

2.10.2.25. Lucrarea *Estimation of Power/Energy Losses in Electric Distribution Systems based on an Efficient Method*, Grigoras G, Alexandrescu V, Cartina G., TELKOMNIKA Indonesian Journal of Electrical Engineering, Vol. 11, No. 9, September 2013, pp. 4854-4860 a fost citata in lucrarea:

The Research Status and Development Trend of Electric Vehicle Power Supply Technology, TELKOMNIKA Indonesian Journal of Electrical Engineering, Vol. 12, No. 11, November 2014, pp. 7690-7696.

2.10.2.26 Lucrarea *Load Estimation for Distribution Systems Using Clustering Techniques* , Grigoras G., Scarlatache Fl., Proceedings of OPTIM 2012 a fost citata in lucrarea:

Modelamiento y simulación de redes de telecomunicación para medición inteligente de energía eléctrica residencial en zonas urbanas, CG Suárez Pozo, Universitatea Politecnica Salesiana, Ecuador. http://dspace.ups.edu.ec/bitstream/123456789/7475/1/UPS-KT00880.pdf

	2.10.2.27 Lucrarea Using k-Means Clustering Method in Determination of the Optimal Placement of Distributed Generation Sources in Elecvtrical Distribution Systems, Scarlatache Fl., Grigoras G., Chicco G., Cartina G., Proceedings of OPTIM 2012 a fost citata in lucrarea: *Modelamiento y simulación de redes de telecomunicación para medición inteligente de energía eléctrica residencial en zonas urbanas,* CG Suárez Pozo, Universitatea Politecnica Salesiana, Ecuador. http://dspace.ups.edu.ec/bitstream/123456789/7475/1/UPS-KT00880.pdf	
	2.10. Finalizare teză de doctorat **Realizări:**	**0**
	2.11. Elaborare standarde **Realizări:**	**0**
Total punctaj Criteriu 2		**719.25**
3. Recunoaşterea naţională şi internaţională (minimum: • 15 puncte prof.; • 10 puncte conf.; • 5 puncte ș. l.)	**3.1**. Profesor invitat pentru prelegeri la univ. de prestigiu **Realizări:**	**0**
	3.2. Membru în academii (Academia Română, Academia de Ştiinţe Tehnice, Academia de Ştiinţe Agricole şi Silvice, Academia Oamenilor de Ştiinţă etc.) **Realizări:**	**0**
	3.3. Doctor Honoris Causa **Realizări:**	**0**
	3.4. Membru în societăţi ştiinţifice şi profesionale **Realizări:** 3.4.1. AGIR 3.4.2. SETIS	**10**
	3.5. Membru în comisii de doctorat **Realizări:**	**0**
	3.6. Membru în colective de redacţie ale revistelor **Realizări:** **Reviste incluse în BDI** 3.6.1. *Journal of Network and Communication Technologies, Canada* (http://www.ccsenet.org/journal/index.php/nct/about/editorialTeam)	**10**
	3.7. Membru în comitete științifice naționale/ internaţionale/ de program (la congrese, conferinţe etc.) **Realizări:** 3.7.1. The International Conference on Automatic Control Theory and Application (ACTA 2014), une 17th-19th, 2014, Bangkok, Thailand, (http://www.actaconf.org/committee.html). 3.7.2. Science and Information Conference, London, UK, 2014 (http://thesai.org/SAIConference2014/Committees). 3.7.3. The 2014 International Conference on Computational Science and Computational Intelligence (CSCI'14), March 10-13, 2014, Las Vegas, USA, (http://www.americancse.org/events/csci2014/committees).	**30**
	3.8. Membru în echipe de expertizare / evaluare a cercetării ştiinţifice (proiecte CNCS, PNCDI II, FP7, Phare; centre de cercetare etc.) **Realizări:**	**0**
	3.9. Membru în echipe de expertizare (evaluare) a procesului educaţional (ARACIS, EUA etc.) **Realizări:**	**0**
	3.10. Membru în consilii naţionale de specialitate **Realizări:**	**0**
	3.11. Organizator de manifestări ştiinţifice naţionale / internaţionale / sesiuni invitate **Realizări:**	**0**
	3.12. Referent ştiinţific / expert naţional şi internaţional (pentru reviste, congrese etc.) **Realizări:** **Jurnale Internationale (250 puncte)** 3.12.1. *International Journal of Electrical and Power System* (**80 puncte**) (http://www.journals.elsevier.com/international-journal-of-electrical-power-and-energy-systems) Lucrarile: IJEPES-D-12-01167, IJEPES-D-13-00030, IJEPES-D-12-01167R1, IJEPES-D-13-00266, IJEPES-D-12-01167R2, IJEPES-D-13-00266R1, IJEPES-D-12-00680R1, IJEPES-D-13-01527 3.12.2. *IEEE Transactions on Power Systems* (**20 puncte**) Lucrarea: TPWRS-01296-2013 3.12.3. *International Journal of Advanced Research in Artificial Intelligence* (**30 puncte**) (http://thesai.org/Reviewers?current=1&filter=G&journal=IJARAI) Lucrarile: IJARAI ID1, IJARAI ID2, IJARAI ID3. 3.12.4. *Journal of Computational Science - Elsevier*(**10 puncte**) Lucrarea: : JOCS-D-13-00168 3.12.5. *Journal of Electrical and Control Engineering* (**30 puncte**) (http://www.joece.org/) Lucrarile: JECE-10225, JECE-19192, JECE-10225R1 3.12.6. *WSEAS Transactions on Power Systems* (**70 puncte**) (http://www.iaee.org/en/publications/ejindex.aspx) Lucrarile: 5716-136 , 5716-137, 5716-148, 5716-150, 5716-158, 5716-165, 5716-184 **Conferinte Internationale (230 puncte)** 3.12.7. *Electric Power Systems, High Voltage, Electric Machines Coneferences (POWER 2014), Lisabona ,Portugalia , 2014* (**30 puncte**). Lucrarile: ID 71705-106, ID 71705-112, ID 71705-115, ID 71705-221. 3.12.9. *7th* Science and Information Conference, London, UK, 2014 (**30 puncte**) Lucrarile: ID 11, 68 152	**480**

	3.13. Membru în comisii de concurs pentru posturi didactice universitare **Realizări:**	**0**
	3.14. Membru în jurii, comisii, concursuri profesionale **Realizări:**	
	3.15. Cercetător invitat pentru activităţi de cercetare în universităţi/firme de prestigiu	
	3.16. Cadru didactic invitat în programe ERASMUS (prelegeri)	
	3.17. Cadru didactic care gestioneaza acorduri bilaterale ERASMUS	
	3.18. Premii ştiinţifice **Realizări:** 2.6.1. Premiu CNCSIS prin Programul de finanţare > Planul Naţional PN II (2007 - 2013) > RESURSE UMANE > Premierea rezultatelor cercetării, in 2009 pentru lucrarea Clustering Techniques in Load Profile Analyze for Distribution Stations, publicată în jurnalul internaţional Journal of Advances in Electrical and Computer Engineering. http://www.cncsis.ro/articole/1941/Etapa-I_2009.html 2.6.2. Premiu CNCSIS prin Programul de finanţare > Planul Naţional PN II (2007 - 2013) > RESURSE UMANE > Premierea rezultatelor cercetării, in 2012 pentru lucrarea Two-stage distributed generation optimal sizing with clustering-based node selection, publicată în jurnalul internaţional Electrical Power and Energy Systems. http://www.cncs-nrc.ro/wp-content/uploads/2012/12/rezultate-10-DECEMBRIE.pdf 2.6.2. Premiu CNCSIS prin Programul de finanţare > Planul Naţional PN II (2007 - 2013) > RESURSE UMANE > Premierea rezultatelor cercetării, in 2013 pentru lucrarea Human errors monitoring in electrical transmission networks based on a partitioning algorithm publicată în jurnalul internaţional Electrical Power and Energy Systems, http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202013/LISTA%201%20ACTUALIZATA%20NOU%2018%20DECEMBRIE.pdf	**120**
Total punctaj Criteriu 3		**650**
4. Activitatea cu studenţii*) (minimum: • 10 puncte prof.; • 7 puncte conf.; • 5 puncte ș.l.)	**4.1.** Conducere cercuri ştiinţifice studenţeşti **Realizări:** 4.1.1. **2 lucrari**: Mihăilă Laurențiu, anul IV, ISE și Gimiga Lucica, anul IV, ISE	**6**
	4.2. Pregătire pentru concursuri profesionale (pentru fazele naţională şi internaţională) **Realizări:**	**0**
	4.3. Conducere lucrări de absolvire[2)], licenţă (diplomă), disertaţie, doctorat (inclusiv cotutelă, membri în echipa de îndrumare) **Realizări:** 4.3.1. 3 *lucrari de licenta* (**9 puncte**) Mihaila Laureantiu, ISE Gimiga Lucica, ISE Strachina Andrei, ME 4.3.2. *3 lucrari de disertatie* **(15 puncte)** Baraboi Alexandru, master MSE; Bandrabula Dan, master MSE; Neagu Irina, master MSE	**24**
	4.4. Îndrumare ani de studii **Realizări:** 4.4.1. Anul IV, 6405 – Inginerie Energetica	**5**
Total punctaj Criteriu 4		**35**
5. Activitatea în comunitatea academică	**5.1.** Participare la simpozioane, mese rotunde etc. **Realizări:** 5.1.1. **Gheorghe Grigoraş**, Mihai Gavrilas, *Estimarea sarcinii maxime a utilizatorilor din retelele electrice de joasa tensiune folosind o metoda bazata pe tehnici de clustering*, Masa Rotunda: Tehnologii moderne in exploatarea retelelor electrice de distributie, Iaşi, Romania, 25 Octombrie 2013.	**10**
	5.2. Activitate în comisii **Realizări:** 5.2.1. 5.2.2. Membru al consiliului facultăţii 5.2.3. Responsabil comisia de orar pe facultate 5.2.4. Comisie promovare facultate 5.2.5. Membru al Comisiei de admitere 5.2.6. Membru Comisia de Achizitie proiect ENERED	**25**
	5.3. Coordonare programe de studii de licenţă/ masterat/ postuniversitare de formare continuă **Realizări:**	**0**
Total punctaj Criteriu 5		**35**
Total punctaj Criterii 1-5		**1635,11**
6. Evaluarea de către Directorul de Departm.	**Justificări:** • .....; • .....; • .....; • .....; •	**50**
Total general		**1685.11**

UNIVERSITATEA TEHNICĂ „GHEORGHE ASACHI” DIN IAŞI

FACULTATEA DE Inginerie Electrică, Energetică şi Informatică Aplicată

DEPARTAMENTUL de Energetică

FIȘA DE AUTOEVALUARE
Și DE EVALUARE DE CĂTRE DIRECTORUL DE DEPARTAMENT -2015

(pentru activitatea în departamentul de încadrare conform contractului de muncă)

Numele şi prenumele cadrului didactic evaluat	**Grigoras Gheorghe**
Funcţia didactică	**Conf. dr. ing.**

Criteriul de evaluare	Indicatori de performanţă (cu explicitarea modului de calcul a punctajului pentru fiecare realizare, conf. nexa 1)	Punctaj
1. Activitate didactică* (minimum: • 30 puncte prof.; • 15 puncte conf.; • 10 puncte ș.l.; • 5 puncte as.)	**1.1.** Predare discipline/ cursuri noi în planul de învăţământ, pe direcţii neelaborate anterior **Realizări:** Optimization Techniques in Electrical Engineering – an III E EEC	**25**
	1.2. Elaborare manuale universitare (inclusiv în sistem e-learning) 1.2.1. Cursuri (**37.20 puncte**) **Realizări:** **Gh. Grigoraş,** Metode numerice in inginerie. Aplicatii in Matlab, Vol. II, Editura PIM, 2012, **124 pag**. ISBN: 978-606-13-0770-8. 1.2.2. Indrumar laborator (**6.05 puncte**) **Gh. Grigoras**, Fl. Scarlatache, Metode numerice. Aplicatii practice, Editura PIM, 2014, **173 pag.**, ISBN: 978-606-13-2143-8. (**6.05 puncte**)	**43.25**
	1.3. Elaborare suporturi de cursuri, seminarii, laboratoare, proiecte **Realizări:** 1.3.1. **Gh. Grigoras**, Optimization Techniques in Electrical Engineering, Suport de curs, format electronic **(120 pag) - (3,6 puncte)**	**3.6**
	1.4. Elaborare manuale şi alte materiale pentru învăţământul preuniversitar **Realizări:**	**0**
	1.5. Modernizare tehnologie didactică **Realizări:** **Dotare cu aparatură, echipamente, materiale, material curricular auxiliar, în scop didactic** **Laptop + videoproiector pentru prezentari curs – (3000 lei) – (21,42 puncte)** **Laborator Tehnici moderne de conducere – master MSE. Programe soft (15 puncte)** 1.5.1. Reglarea tensiunii in rețetele electrice. Modelarea fuzzy a funcționarii unui comutator de ploturi (**Gh. Grigoras**, Fl. Scarlatache) Utilizarea tehnicilor de clustering in sistemele de distribuție. Implementare in Matlab. (**Gh. Grigoras**, Fl. Scarlatache) Estimarea fiabilității sistemelor de distribuție folosind modele fuzzy (**Gh. Grigoras)** Evaluarea variațiilor lente de tensiune din sistemele de distribuție folosind tehnici fuzzy (**Gh. Grigoras)** **Laborator Metode numerice în inginerie licenta ISE+ME. Biblioteca de functii Matlab pentru implementarea metodelor numerice in inginerie (Gh. Grigoras) (55 puncte)** 1.5.2. Metode de aproximarea functiilor prin interpolare polinomiala Metode de proximarea functiilor prin curbe spline Metode de aproximarea functiilor prin regresie polinomiala – metoda celor mai mici patrate Metode de aproximare a radacinilor ecuatiilor algebrice si transcendente Metode directe de rezolvare a sistemelor de ecuatii liniare Metode iterative de rezolvare a sistemelor de ecuatii liniare Metode iterative de rezolvare a sistemelor de ecuatii neliniare Metode numerice pentru derivare Metode numerice pentru integrare Metode numerice pentru determinarea vectorilor și valorilor proprii Metode numerice pentru rezolvarea ecuatiilor diferențiale	**106,42**

	Laborator Optimization Techniques in Electrical Engineering EEC (15 puncte) (**Gh. Grigoras**, Fl. Scarlatache) Using MatLab software package to solve optimization problems Optimization criteria Simplex-primal Algorithm in solving linear programming problems Dynamic programming Application of nonlinear programming without restrictions in solving of optimization proble Reduced gradient method	
Total punctaj Criteriu 1		**178.27**
2. Cercetarea ştiinţifică (minimum: • 150 puncte prof.; • 100 puncte conf.; • 60 puncte ș.l.; • 30 puncte asist.)	**2.1.** Elaborare cărţi/ monografii/ tratate **Realizări:** 2.1.1. **Gh. Grigoras**, Gh. Cartina, The Impact of the Fuzzy Modeling in Electric Distribution Systems, Ed. Lambert Academic Publishing, Germany, 2011, ISBN: 978-3-8473-2793-6 (**165 pag.**) – (**41,25 puncte**) 2.1.2. **Gh. Grigoras**, Gh. Cartina, E.C. Bobric, Trends and Directions for Energy Saving in Electric Networks, capitol in cartea Management of Techological Innovation in Developing and Developed Countries, Ed. INTECH, Croatia, 2012, ISBN:978-953-51-0365-3 (**24 pag**) – (**4 puncte**)	**45,25**
	2.2. Articole publicate în reviste de specialitate **Realizări:** **a. Reviste cotate ISI (259.62 puncte)** 2.2.1. Rotaru Fl, Chicco G., **Grigoras Gh**., Cartina Gh., Two-stage distributed generation optimal sizing with clustering-based node selection, International Journal of Electrical Power & Energy Systems, Volume 40, Issue 1, September 2012, Pages 120–129 (FI = 3,43) – (**41,8 puncte**) 2.2.2. **Grigoras Gh.**, Cartina Gh., The fuzzy correlation approach in operation of electrical distribution systems, The International Journal for Computation and Mathematics in Electrical and Electronic Engineering Vol. 32 No. 3, 2013, pp. 1044-1066, (FI=0.371) - (**22,42 puncte**) 2.2.3. **Grigoras Gh.**, Barbulescu C., Human errors monitoring in electrical transmission networks based on a partitioning algorithm, Electrical Power and Energy Systems 49 (2013) 128–136, http://dx.doi.org/10.1016/j.ijepes.2012.12.016. (FI = 3,43) - (**83,6 puncte**) 2.2.4. **Grigoras Gh.**, Scarlatache Fl., An assessment of the renewable energy potential using a clustering based data mining method. Case study in Romania, Energy, Volume 81, 1 March 2015, Pages 416–429, doi:10.1016/j.energy.2014.12.054. (FI = 4,84) - (**111,8 puncte**) **b. Reviste cotate BDI (177.5 puncte)** 2.2.5. **Gh. Grigoras**, Fl. Scarlatache, Clustering to Peak Load Estimation in Transformer Substations from Electric Distribution Systems, Buletinul Institului Politehnic din Iasi, Seria Electrotehnica, Energetica, Tomul LIX(LXIII), No. 3, pp 141 - 149, 2013. (**15 puncte**) 2.2.6. **Gh. Grigoras**, V Alexandrescu, G Cartina, Fl Scarlatache, Estimation of Power/Energy Losses in Electric Distribution Systems based on an Efficient Method, TELKOMNIKA, Vol. 11, No. 9, September 2013, pp. 4854-4860, DOI: 10.11591/telkomnika.v11i9.2889. (**7.5 puncte**) 2.2.7. **Gh. Grigoras**, Fl. Scarlatache, Estimation of power/energy losses in electric networks using Artificial Intelligence techniques, Energetica, No. 5, Mai 2013, pp. 189-193. 2.2.8. Fl. Scarlatache, **Gh. Grigoraş**, A Wind Energy Profiling Method Based On Unsupervised Learning Techniques, Buletinul Institutului Politehnic din Iaşi, Secţia: Electrotehnică, Energetică, Electronică, Tomul LX (LXIV), Fasc. 2, 2014, pp. 9-17. (**15 puncte**) 2.2.9. **Gh. Grigoras** , Assessment of Electrical Load in Water Distribution Systems Using Representative Load Profiles-Based Method, Advances in Electrical Engineering, vol. 2014, Article ID 865621, 10 pages, 2014. doi:10.1155/2014/865621, ISSN: 2356-6655, ISSN: 2314-7636 (Online) (http://www.hindawi.com/journals/aee/2014/865621/). (**30 puncte**) 2.2.10. Fl. Scarlatache, **Gh. Grigoraş**, B. Neagu, The impact of distributed generation on the voltage control in electrical distribution networks, Energetica, Vol. 62, Nr. 3, pp. 105 – 110, ISSN: 1453-2360, 2014. (**10 puncte**) 2.2.11. **Gh. Grigoraş**, M. Gavrilaș, Maximum load estimation of consumers in low voltage networks using a clustering techniques based method, Energetica, Vol. 62, Nr. 3, pp. 90 – 94, ISSN: 1453-2360, 2014. (**15 puncte**) 2.2.12. M. Gavrilas, **Gh. Grigoras**, S. Buliga, C. Strugaru, Influence of Renewable Sources Integration on Technical Energy Losses in High Voltage Distribution Networks, Energetica, Vol. 63, Nr. 4, pp. 139 – 144, ISSN: 1453-2360, 2015. (**7.5 puncte**) 2.2.13. **Gh. Grigoras**, M. Gavrilas, S. Buliga, C. Strugaru, Solutions Regarding the Efficient Use of Transformers in Electric Distribution Networks, Energetica, Vol. 63, Nr. 4, pp. 145 – 149, ISSN: 1453-2360, 2015 (**7.5 puncte**). 2.2.14. B. Neagu, **Gh. Grigoras**, Fl. Scarlatache, Load Management in Distribution Systems with Smart Metering, Energetica, Vol. 63, Nr. 4, pp. 150 – 156, ISSN: 1453-2360, 2015.(**10 puncte**) 2.2.15. **Gh. Grigoras**, C. Bobric, Clustering Based Approach for Customers' Classification From Electrical Distribution Systems, U.P.B. Sci. Bull., Series C, Vol. 77, Iss. 2, 219-226, 2015. (**15 puncte**) 2.2.16. **Gh. Grigoras**, B. Neagu, Market Clearing Price Forecasting in Deregulated Electricity Markets Using a Fuzzy Approach, Acta Electrotehnica, Vo. 56, Nr. 3, pp. 113-116, 2015. (**15 puncte**) 2.2.17. B. Neagu, **Gh. Grigoras**, Data Mining Tools in Electricity Distribution Systems, Acta Electrotehnica, Vo. 56, Nr. 3, pp. 209-212, 2015. (**15 puncte**)	**437.12**
	2.3. Conferinţe invitate, lucrări comunicate la manifestări științifice **Realizări:** **a. Lucrări comunicate (6 puncte)** 2.3.1. **Gh. Grigoras**, M. Gavrilaș, Fl. Scarlatache, M. Cazacu și M. Coșarcă, Estimarea CPT tehnic în reţelele de distribuție de joasă tensiune dezechilibrate, Masa Rotunda "Tehnologii moderne în exploarea rețelelor electrice", Iași, 2015. (**3 puncte**) 2.3.2. M. Gavrilaș, **Gh. Grigoras**, O. Ivanov, M. Cazacu și M. Coșarcă, Reglajul teniunii, Masa Rotunda "Tehnologii moderne în exploarea rețelelor electrice", Iași, 2015. (**3 puncte**)	**6**

	2.4. Lucrări publicate în volumele conferinţelor **Realizări:** **a. Volume indexate ISI (217,5 puncte)** 2.4.1. B. Neagu, **Gh. Grigoraş**, Assesment of Slow Voltage Variations from the Electric Distribution Systems with Fuzzy Techniques, ECAI 2015 - – 7th International Conference on Electronics, Computers and Artificial Intelligence, 25 June -27 June, 2015, București, Romania (**25 puncte**) 2.4.2. **Gh. Grigoras**, Fl. Scarlatache, Processing of Smart Meters Data for Peak Load Estimation of Consumers, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2015), Bucharest, Romania, 7 – 9 May 2015. (**25 puncte**) 2.4.3. Fl. Scarlatache, **Gh. Grigoras**, Placement of DG Sources Using a Clustering Based Partitioning Method in Distribution Systems, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2015), Bucharest, Romania, 7 – 9 May 2015. (**25 puncte**) 2.4.4. A. Banerjee, M. Gavrilas, **Gh. Grigoras**, S. Chattopadhyay, Decision making in assessment of RRAP of WSN using fuzzy-hybrid approach, 2015 IEEE International Conference on Advanced Networks and Telecommuncations Systems (ANTS), Kolkata, India, 15 – 18 december, 2015. (**12,5 puncte**) 2.4.5. Kriukov, A, **Grigoras, G**, Scarlatache, F, Ivanov, O, Vicol, B. Use of Fuzzy Techniques in Reliability Assessment of Electric Distribution Systems, , Book Group Author(s):Ieee 2014 Ieee 16th International Conference on Harmonics and Quality Of Power (ICHQP) Book Series: International Conference on Harmonics and Quality of Power, Pages: 29-33, Published: 2014, ISBN:978-1-4673-6487-4, ISSN: 2164-0610. (**10 puncte**) 2.4.6. Kriukov, A, **Grigoras, G**, Gavrilas, M., Scarlatache, F.,Neagu, B., An Analyze of Slow Voltage Variations from the Electric Distribution Systems with a Clustering Based Approach, , Book Group Author(s):IEEE 2014 IEEE 16TH INTERNATIONAL CONFERENCE ON HARMONICS AND QUALITY OF POWER (ICHQP), Book Series: International Conference on Harmonics and of Power, Pages: 689-693, Published: 2014, ISBN:978-1-4673-6487-4, ISSN: 2164-0610. (**10 puncte**) 2.4.7. Vicol, B, Gavrilas, M., Ivanov, O., Neagu, B., **Grigoras, G**., Synchrophasor measurement method for overhead line parameters estimation in MV distribution networks, Book Group Author(s):IEEE 2014 IEEE 16TH INTERNATIONAL CONFERENCE ON HARMONICS AND QUALITY OF POWER (ICHQP), Book Series: International Conference on Harmonics and Quality of Power, Pages: 862-865, Published: 2014, ISBN:978-1-4673-6487-4, ISSN: 2164-0610. (**10 puncte**) 2.4.8. Scarlatache, F., **Grigoras, G.**, Optimal Coordination of Wind and Hydro Power Plants in Power Systems, Book Group Author(s):IEEE 2014 INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT (OPTIM), Pages: 689-694, Published: 2014, ISBN:978-1-4799-5183-3. (**25 puncte**) 2.4.9. **Grigoras, G**, Scarlatache, Use of Data from Smart Meters in Optimal Operation of Distribution Systems, F, Book Group Author(s):IEEE 2014 INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT (OPTIM), Pages: 179-184, Published: 2014, ISBN:978-1-4799-5183-3. (**25 puncte**) 2.4.10. **Grigoras, G**, Scarlatache Fl., Knowlegde Extraction from Smart Meters for Consumer Classification, Book Group Author(s):IEEE 2014 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE), Pages: 978-982, Published: 2014, ISBN:978-1-4799-5849-8. (**25 puncte**) 2.4.11. Scarlatache Fl., **Grigoras, G**, Influence Of Wind Power Plants On Power Systems Operation, Book Group Author(s):IEEE 2014 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE), Pages: 1010-1014, Published: 2014, ISBN:978-1-4799-5849-8. (**25 puncte**) **b. Volume indexate BDI (40 puncte)** 2.4.12. **Gh. Grigoras**, B. Neagu, Market Clearing Price Forecasting in Deregulated Electricity Markets Using a Fuzzy Approach, The 6th International Conference on Modern Power Systems, Cluj-Napoca, Romania, 18-21 May, 2015. (**15 puncte**) 2.4.13. B. Neagu, **Gh. Grigoras**, Data Mining Tools in Electricity Distribution Systems, The 6th International Conference on Modern Power Systems, Cluj-Napoca, Romania, 18-21 May, 2015. (**15 puncte**) 2.4.14. **G. Grigoraş**, O. Ivanov, M. Gavrilas, Customer Classification and Load Profiling using Data from Smart Meters, 12th Symposium on Neural Network Applications in Electrical Engineering (NEUREL), 2014, pp. 73 – 78, Belgrad, Serbia, 25-27 Noiembrie 2014 DOI: 10.1109/NEUREL.2014.7011464. (**10 puncte**) **c. Volume neindexate (10 puncte)** 2.4.15. **Gh. Grigoraş,** C. Bărbulescu, Decision making under uncertainty in development planning of power grid, International Conference on Condition Monitoring, Diagnosis and Maintenance 2015, CMDM 2015 (3rd edition), București, Romania, 5 – 8 octombrie, 2015. (**10 puncte**)	**267,5**
	2.5. Brevete acordate, produse omologate **Realizări:** 2.5.1. ..... 2.5.2.	**0**
	2.6. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie **Realizări:**	**0**
	2.7. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare încheiate cu institute de cercetare, companii, regii, societăţi comerciale **Realizări:** **Servicii de consultanţă de specialitate în proiectul EON Moldova Distributie de reducere a pierderilor tehnice în rețelele electrice de distributie Contract nr. 1398P/08.10.2014 (membru)**	**15,43**
	2.8. Creaţii de arhitectură, urbanism, restaurări, design şi arte plastice **Realizări:**	**0**

2.9. Citări în reviste cotate ISI sau indexate în baze de date internaţionale (BDI)

Realizări:

a. **Citări în reviste cotate ISI sau indexate în baze de date internaţionale (BDI), în volume ale conferinelor indexate ISI sau BDI (343 puncte)**

2.9.1. LUCRAREA:

Rotaru FI, Chicco G., Grigoras Gh., Cartina Gh., Two-stage distributed generation optimal sizing with clustering-based node selection, International Journal of Electrical Power & Energy Systems, Vol. 40, No. 1, September 2012, Pages 120–129, doi:10.1016/j.ijepes.2012.02.012 (**146 puncte**)

a fost citata in lucrarile:

1. Georgilakis, P. S., & Hatziargyriou, N. D. (2013). Optimal distributed generation placement in power distribution networks: models, methods, and future research. *IEEE Transactions on Power Systems*, 28(3), 3420-3428. (**5 puncte**)
2. Peik-Herfeh, M., Seifi, H., & Sheikh-El-Eslami, M. K. (2013). Decision making of a virtual power plant under uncertainties for bidding in a day-ahead market using point estimate method. *International Journal of Electrical Power & Energy Systems*, 44(1), 88-98. (**5 puncte**)
3. Ugranlı, F., & Karatepe, E. (2013). Multiple-distributed generation planning under load uncertainty and different penetration levels. *International Journal of Electrical Power & Energy Systems*, *46*, 132-144. (**5 puncte**)
4. Dehghanian, P., Hosseini, S. H., Moeini-Aghtaie, M., & Arabali, A. (2013). Optimal siting of DG units in power systems from a probabilistic multi-objective optimization perspective. *International Journal of Electrical Power & Energy Systems*, *51*, 14-26. (**5 puncte**)
5. Murthy, V. V. S. N., & Kumar, A. (2013). Comparison of optimal DG allocation methods in radial distribution systems based on sensitivity approaches.*International Journal of Electrical Power & Energy Systems*, *53*, 450-467. (**5 puncte**)
6. Rozali, N. E. M., Alwi, S. R. W., Manan, Z. A., Klemeš, J. J., & Hassan, M. Y. (2014). Optimal sizing of hybrid power systems using power pinch analysis.*Journal of Cleaner Production*, *71*, 158-167. (**5 puncte**)
7. Jahromi, M. E., Ehsan, M., & Meyabadi, A. F. (2012). A dynamic fuzzy interactive approach for DG expansion planning. *International Journal of Electrical Power & Energy Systems*, *43*(1), 1094-1105. (**5 puncte**)
8. Yadav, A., & Srivastava, L. (2014, January). Optimal placement of distributed generation: An overview and key issues. In *Power Signals Control and Computations (EPSCICON), 2014 International Conference on* (pp. 1-6). IEEE. (**2 puncte**)
9. De Souza, A. R. R., Fernandes, T. S. P., Aoki, A. R., Sans, M. R., Oening, A. P., Marcilio, D. C., & Omori, J. S. (2013). Sensitivity analysis to connect distributed generation. *International Journal of Electrical Power & Energy Systems*, *46*, 145-152. (**5 puncte**)
10. Ugranlı, F., & Karatepe, E. (2013). Optimal wind turbine sizing to minimize energy loss. *International Journal of Electrical Power & Energy Systems*, *53*, 656-663. (**5 puncte**)
11. Ebrahimi, R., Ehsan, M., & Nouri, H. (2013). A profit-centric strategy for distributed generation planning considering time varying voltage dependent load demand. *International Journal of Electrical Power & Energy Systems*, *44*(1), 168-178. (**5 puncte**)
12. Vinothkumar, K., & Selvan, M. P. (2014). Hierarchical agglomerative clustering algorithm method for distributed generation planning. *International Journal of Electrical Power & Energy Systems*, *56*, 259-269. (**5 puncte**)
13. Li Jing, Wei Wei, Xin Huanhai, & Peng Yonggang. (2014). Based on the optimal allocation of wind power probability trend of distributed power. *Automation of Electric Power Systems*, 38 (14), 70G76. (**3 puncte**)
14. Chen, G., Chen, B., Dai, P., & Zhou, H. (2013). A Sustainability-Oriented Multiobjective Optimization Model for Siting and Sizing Distributed Generation Plants in Distribution Systems. *Mathematical Problems in Engineering*, *2013*. (**5 puncte**)
15. Matos, D. M. B., & Catalão, J. P. S. (2013). Geração Distribuída e os seus Impactes no Funcionamento da Rede Elétrica: Parte 2. *Potência*, *1*(2), 3. (**3 puncte**)
16. Sultana, S., & Roy, P. K. (2015). Oppositional krill herd algorithm for optimal location of distributed generator in radial distribution system. *International Journal of Electrical Power & Energy Systems*, *73*, 182-191. (**5 puncte**)
17. Hui, W., & Fangqiu, X. (2012, December). Different load models based on particle swarm algorithm for the siting and sizing optimization problem for distributed power. In *2012 10th International Power & Energy Conference (IPEC)* (pp. 19-24). IEEE. (**2 puncte**)
18. Morvaj, B., Evins, R., and Carmeliet, J. (2015). Bi-level optimisation of distributed energy systems incorporating non-linear power flow constraints. In *Proceedings of International Conference CISBAT 2015 Future Buildings and Districts Sustainability from Nano to Urban Scale* (No. EPFL-CONF-213433, pp. 859-864). LESO-PB, EPFL. (**1 punct**)
19. Gupta, P., Pandit, M., & Kothari, D. P. (2014, December). A review on optimal sizing and siting of distributed generation system: Integrating distributed generation into the grid. In *Power India International Conference (PIICON), 2014 6th IEEE* (pp. 1-6). IEEE. (**1 punct**)
20. Singh, A. K., & Parida, S. K. (2015). Allocation of distributed generation using proposed DMSP approach based on utility and customers aspects under deregulated environment. *International Journal of Electrical Power & Energy Systems*, *68*, 159-169. (**5 puncte**)
21. Prenc, R., Bogunović, N., & Cuculić, A. (2015). The effect of distributed generation type and location constraints on the solution of the allocation algorithm. *International Review of Electrical Engineering (IREE)*, *10*(1), 88-97. (**3 puncte**)
22. Dehghanian, P., Hosseini, S. H., Moeini-Aghtaie, M., & Arabali, A. (2013). Electrical Power and Energy

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Systems. *Electrical Power and Energy Systems*,*51*, 14-26. (**5 puncte**)

23. Tamayo, D. C. L., Burgos, P. A. N., & Lezama, J. M. L. (2015). Optimal location and sizing of distributed generation: a review of the state of the art.*REVISTA POLITÉCNICA*, *11*(20), 99-110. (**3 puncte**)
24. Georgilakis, P. S. (2013). Integration of Distributed Generation in the Power System, M. Bollen, F. Hassan. Wiley–IEEE Press, New Jersey (2011). (**5 puncte**)
25. Ugranlı, F., & Karatepe, E. (2015). Multi-objective transmission expansion planning considering minimization of curtailed wind energy. *International Journal of Electrical Power & Energy Systems*, *65*, 348-356. (**5 puncte**)
26. Huy, P. D., Ramachandaramurthy, V. K., & Pesaran, H. M. (2015, November). Optimal selection of location, sizing and power factor for solar PV plants using differential evolution. In *Smart Grid Technologies-Asia (ISGT ASIA), 2015 IEEE Innovative* (pp. 1-6). IEEE. (**1 punct**)
27. Chernykh, I., Chechushkov, D., & Panikovskaya, T. (2014). Optimal placement units of distributed generation. *WIT Transactions on Ecology and the Environment*, *190*, 445-454. (**3 puncte**)
28. Nojavan, S., Jalali, M., & Zare, K. (2015). An MINLP Approach for Optimal DG Unit's Allocation in Radial/Mesh Distribution Systems Take into Account Voltage Stability Index. *Iranian Journal of Science and Technology. Transactions of Electrical Engineering*,*39*(E2), 155. (**3 puncte**)
29. Othman, M. M., El-Khattam, W., Abdelaziz, A. Y., & Hegazy, Y. G. Multiple voltage controlled distributed energy resources sizing and allocation for virtual power plant realization. 16th International Middle- East Power Systems Conference -MEPCON'2014, Ain Shams University, Cairo, Egypt, December 23 - 25, 2014. (**1 punct**)
30. Kumawat, M., Gupta, N., Jain, N., & Saxena, D. (2015, January). Optimal distributed generation placement in power distributed networks: A review. In *Electrical, Electronics, Signals, Communication and Optimization (EESCO), 2015 International Conference on* (pp. 1-6). IEEE. (**1 punct**)
31. Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (**3 puncte**)
32. *E. R. Magaril, C. A. Brebbia, M. Y. Khodorovsky, Energy Productionand Management in the 21st Century, Vol 1, WIT Press, 2014.* http://books.google.ro/books?id=2nj4AgAAQBAJ&pg=PA453&lpg=PA453&dq=Twostage+distributed+generation+optimal+sizing+with+clusteringbased+node+selection&source=bl&ots=dR2RFyEqcf&sig=YVOkc1SivLg0ZeZVw1gkuCW6k24&hl=en&sa=X&ei=AS6MU5zZLsWROKXkgKgD&redir_esc=y#v=onepage&q=Twostage%20distributed%20generation%20optimal%20sizing%20with%20clustering-based%20node%20selection&f=fals. (**3 puncte**)
33. *Whole sale Distributed Generation (WDG) Catalogue of Benefits,* http://www.clean-coalition.org/site/wp-content/uploads/2013/07/WDG-Catalogue-of-Benefits-04_jb-26-July-2013.pddf. (**3 puncte**)
34. SD. Meera Shareef, T.Vinod Kumar (2014), A Review on Models and Methods for Optimal Placement of Distributed Generation in Power Distribution System, *International Journal of Education and applied research (IJEAR)*, 4(1), 161-169. (**3 puncte**)

2.9.2. LUCRAREA:

Bobric E.C., Cârţină Gh., **Grigoraş Gh**, *Clustering Techniques in Load Profile Analyze for Distribution Stations*, Journal of Advances in Electrical and Computer Engineering, Romania, Nr.1, 2009, pp. 63 – 66, ISSN: 1582 – 7445 (**49 puncte**)

a fost citata in lucrarile:

1. Rogers, D. F., & Polak, G. G. (2013). Optimal clustering of time periods for electricity demand-side management. *IEEE Transactions on Power Systems*,*28*(4), 3842-3851. (**5 puncte**)
2. Filote, C., Ciufudean, C., Alaci, S., & Cozgarea, A. M. (2011, August). Wavelet multiresolution analysis of TPRD and RNSIC input current. In *11th WSEAS International Conference on signal processing, computational geometry and artificial vision* (pp. 158-165). (**1 punct**)
3. Filote, C., Ciufudean, C., & Cozgarea, A. M. (2009, September). A comparative analysis of total harmonic distortion in TPRD and RNSIC. In *2009 13th European Conference on Power Electronics and Applications*. (**2 puncte**)
4. Piao, M., Li, M., & Ryu, K. H. (2010, June). Using Significant Classification Rules to Analyze Korean Customers' Power Consumption Behavior: Incremental Tree Induction using Cascading-and-Sharing Method. In *2010 10th IEEE International Conference on Computer and Information Technology*. (**1 punct**)
5. Filote, C., Ciufudean, C., Musteata, F., Chirila, O., & Cozgarea, A. M. (2010). New method for power factor correction with RNSIC. In *Proc. of Int. Conf. on Circuits, Systems, Signals, CSS* (pp. 353-358). (**2 puncte**)
6. Komenda, T., & Komenda, N. (2012). Morphometrical analysis of daily load graphs. *International Journal of Electrical Power & Energy Systems*, *42*(1), 721-727. (**5 puncte**)
7. Varga, E. D., Beretka, S. F., Noce, C., & Sapienza, G. (2015). Robust real-time load profile encoding and classification framework for efficient power systems operation. *IEEE Transactions on Power Systems*, *30*(4), 1897-1904. (**5 puncte**)
8. Beretka, S. F., & Varga, E. D. (2013). Efficient encoding of customer class load profiles. In *2013 Africon*. (**2 puncte**)
9. Beretka, S. F., & Varga, E. D. (2013, October). Locality sensitive hashing of customer load profiles. In *2013 International Conference on Renewable Energy Research and Applications (ICRERA)*. (**2 puncte**)
10. Brabec, M., Konár, O., Malý, M., Kasanický, I., & Pelikán, E. (2015). Statistical models for disaggregation and reaggregation of natural gas consumption data. *Journal of Applied*

Statistics, *42*(5), 921-937. (**5 puncte**)

11. Falahi, M., Alavi, H., Shaygan, M., & Hojati, A. (2013, January). A new method for optimal planning in extensive distribution networks despite uncertain data. In *22nd International Conference and Exhibition on Electricity Distribution (CIRED 2013)*. (**1 punct**)
12. Filote, C., Ciufudean, C., Micea, M. V., & Cozgarea, A. M. Power Factor Improvement Using Rnsic Rectifier, *Proceedings of the IASTED International Conference*, November 24 - 26, 2010 Phuket, Thailand, Power and Energy Systems (AsiaPES 2010) (**1 punct**)
13. Rahideh, A., Gitizadeh, M., & Sadrzadeh, A. (2015, April). Voltage and reactive power control in a distribution system using hybrid SA-DBPSO algorithm. In *Electrical Power Distribution Networks Conference (EPDC), 2015 20th Conference on* (pp. 72-77). IEEE. (**2 puncte**)
14. Mujović, S., Djukanović, S., Radulović, V., Katić, V., & Rašović, M. (2013). Least Squares Modeling of Voltage Harmonic Distortion Due to PC Cluster Operation. *Advances in Electrical and Computer Engineering*, *13*(4). (**5 puncte**)
15. Mets, K., Depuydt, F., & Develder, C. (2015), Two-Stage Load Pattern Clustering Using Fast Wavelet Transformation, IEEE Transactions on Smart Grid (Volume:PP , Issue: 99), 23 July 2015, 10.1109/TSG.2015.2446935 (**5 puncte**)
16. Malik, F. H., Mubbashir, A., & Lehtonen, M. (2014). Collaborative Demand Response Optimization of Electric Vehicles and Storage Space Heating for Residential Peak Shaving. *International Review of Electrical Engineering (IREE)*, *9*(6), 1154-1161. (**3 puncte**)
17. Piao, M., Lee, J. B., Shon, H. S., Cha, E. J., Kim, K. A., & Ryu, K. H. (2011). Identification of Temporal Interval Relations of Frequent Patterns during Incremental Phase. In *International Conference on Computer Engineering and Technology, 3rd (ICCET 2011)*. ASME Press. (**2 puncte**)

2.9.3. LUCRAREA:

Bobric E.C., Cârţină Gh., **Grigoraş Gh**., *Fuzzy Techniques used for Energy Losses Determination in Medium and Low Voltage Networks*, Journal of Electronics and Electrical Engineering, Lituania, Nr. 2 (90), 2009, pp. 95 – 98 (**27 puncte**)

a fost citata in lucrarile:

1. Lisauskas, S., & Rinkevičienė, R. (2015). Model of ventilation system drive with Fuzzy controller. *Elektronika ir Elektrotechnika*, *106*(10), 13-16. (**5 puncte**)
2. Han, Y., Xu, L., Yao, G., Zhou, M., & Chen, C. (2015). The adaptive signal processing scheme for power quality conditioning applications based on active noise control (ANC). *Elektronika ir Elektrotechnika*, *96*(8), 9-14. (**5 puncte**)
3. Filote, C., Ciufudean, C., & Cozgarea, A. M. (2009, September). A comparative analysis of total harmonic distortion in TPRD and RNSIC. In *2009 13th European Conference on Power Electronics and Applications*. (**2 puncte**)
4. Sylwester, F. (2011). Application of Classifier System and Co-Evolutionary Algorithm in Optimization of Medium-Voltage Distribution Networks Post-Fault Configuration. *Elektronika ir Elektrotechnika*, *115*(9), 9-15. (**5 puncte**)
5. Erguzel, T. T. (2013). Fuzzy controller parameter optimization using genetic algorithm for a real time controlled system. In *Proceedings of the World Congress on Engineering* (Vol. 2, pp. 3-5). (**2 puncte**)
6. Juraitis, S., Rinkeviciene, R., & Kriauciunas, J. (2011). Fuzzy Controller of Two-mass System. *Elektronika ir Elektrotechnika*, *116*(10), 3-6. (**5 puncte**)
7. Stępień, J., & Filipiak, S. (2014). Optimisation of Distribution Network Configuration with the Aid of Co-Evolutionary Algorithm with Regard for Reliability Coefficients Varying During Operation of Network Elements.*Universal Journal of Electrical and Electronic Engineering*, *2*(3), 97-104. (**3 puncte**)

2.9.4.LUCRAREA:

Gh. Grigoras, Gh. Cartina, M. Gavrilas, *Using of Clustering Techniques in Optimal Placement of Phasor Measurements Units",* , Proceedings of the 9th WSEAS/IASME International Conference on Electric Power Systems, High Voltages, Electric Machines, Genova, Italy, pp.104-108 (**6 puncte**)

a fost citata in lucrarile:

1. Priyadharshini, M., & Meenakumari, R. (2014, March). Probabilistic approach based optimal placement of phasor measurement units via the estimation of dynamic vulnerability assessment. In *Green Computing Communication and Electrical Engineering (ICGCCEE), 2014 International Conference on* (pp. 1-7). IEEE. (**2 puncte**)
2. Takata, M., Miyata, Y., & Nishikawa, N. (2015, March). Proposal of analytics software architecture with data preparation layer for fast event identification in wide-area situational awareness. In *Industrial Technology (ICIT), 2015 IEEE International Conference on* (pp. 1741-1746). IEEE. (**1 punct)**
3. Abdelaziz A. Y., Amr M. Ibrahim, Reham H. Salem (2013), Power system observability with minimum phasor measurement units placement, ,*International Journal of Engineering, Science and Technology,* Vol. 5, No. 3, 2013, pp. 1-18. (**3 puncte**)

2.9.5. LUCRARE:

Grigoras, Gh., Cartina, G., & Bobric, E. (2010). Strategies for Power/Energy Saving in Distribution Networks. *Advances in Electrical and Computer Engineering*, *10*(2), 61-64. (**21 puncte**)

a fost citata in lucrarile:

1. Xiao, P., & Liu, D. (2015). Improving network routing energy–efficiency for real–time workloads by stochastic service model. *International Journal of Information and Communication Technology*, *7*(2-3), 302-315. (**3 puncte**)
2. Selakov, A., Cvijetinović, D., & Ilić, S. (2012). Short term load forecasting using support vector machines for different consumer types. *Journal on Processing and Energy in Agriculture*, *16*(3), 128-

131. (**3 puncte**)

3. Peng, X., Peixin, Q., & Xilong, Q. (2013). An Energy-aware Routing Mechanism for Latency-sensitive Traffics. *International Journal of Grid and Distributed Computing*, *6*(6), 23-36. (**3 puncte**)
4. Malik, F. H., Mubbashir, A., & Lehtonen, M. (2014). Collaborative Demand Response Optimization of Electric Vehicles and Storage Space Heating for Residential Peak Shaving. *International Review of Electrical Engineering (IREE)*, *9*(6), 1154-1161. (**3 puncte**)
5. Grujić, A., & Stojković, Z. (2016). Fuzzy logic-based concept for high-voltage substation risk management against lightning. *IEEJ Transactions on Electrical and Electronic Engineering*, 11(S1), S28-S36. (**3 puncte**)
6. Tang, C., Zhu, S., Li, J., Zhang, D., & Yang, J. (2014). A modified optimization model for the location selection of distribution transformer used in rural power network. *Journal of Computers*, *9*(4), 875-882. (**3 puncte**)
7. Sarchiz, D., Dub, V., & Bucur, D. (2010). Optimization Strategies to Increase Electrical Distribution Networks Robustness 20 kV and 110 kV from County Mures. *Scientific Bulletin of the" Petru Maior" University of Targu Mures*, *7*(2), 10. (**3 puncte**)

2.9.6. LUCRAREA:

Grigoras, G., & Scarlatache, F. (2015). An assessment of the renewable energy potential using a clustering based data mining method. Case study in Romania. *Energy*, *81*, 416-429. (**11 puncte**)

a fost citata in lucrarile:

1. Meldon, J., & Benjamin, R. (2015), Renewable Energy Integration and the Algorithm of Power Generation and Cogeneration Management.*Journal of Electrical Engineering and Science,* 1(1). (**3 puncte**)
2. Darvishi, A., & Hassanpour, H. (2015). A Geometric View of Similarity Measures in Data Mining. *International Journal of Engineering-Transactions C: Aspects*, *28*(12), 1728. (**3 puncte**)
3. Sánchez-Lozano, J. M., García-Cascales, M. S., & Lamata, M. T. (2016). Comparative TOPSIS-ELECTRE TRI methods for optimal sites for photovoltaic solar farms. Case study in Spain. *Journal of Cleaner Production*, *127*, 387-398. (**5 puncte**)

2.9.7. LUCRAREA:

Grigoras, G., Cartina, G., & Rotaru, F. (2010, October). Using K-means clustering method in determination of the energy losses levels from electric distribution systems. In *Proceedings of the 12th WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, Timisoara, Romania* (pp. 52-6). (**3 puncte**)

a fost citata in lucrarea:

1. Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (**3 puncte**)

2.9.8. LUCRAREA:

Cartina, G., Grigoras, G., & Bobric, E. C. (2007, October). Power system analysis using Matlab toolboxes. In *6th International Conference on Electromechanical and Power Systems, Chisinau, Rep. Moldova*. (**13 puncte**)

a fost citata in lucrarile:

1. Al-Sheikh, H., & Moubayed, N. (2012). An overview of simulation tools for renewable applications in power systems. In *2012 2nd International Conference on Advances in Computational Tools for Engineering Applications (ACTEA)*. (**2 puncte**)
2. Akorede, M. F., & Hizam, H. (2009, December). Teaching power system analysis courses using MATPOWER. In Engineering Education (ICEED), 2009 International Conference on (pp. 45-51). IEEE. 90 (**1 punct**)
3. Shaikh, S. K. M., & Dharme, A. A. (2009, December). Time of Use pricing-India, a case study. In *Power Systems, 2009. ICPS'09. International Conference on* (pp. 1-6). IEEE. (**1 punct**)
4. Tanwani, N. K., Memon, A. P., Adil, W. A., & Ansari, J. A. Simulation Techniques of Electrical Power System Stability Studies Utilizing Matlab/Simulink. *engineer*, *9*, 18. (**3 puncte**)
5. Bobric, E. C., Irimia, D., Rata, G., & Rata, M. Planning and Management of the Power System Using Dsatools'software, *ANNALS of the ORADEA UNIVERSITY*, Fascicle of Management and Technological Engineering, Volume IX (XIX), 2010, NR1.(**3 puncte**)
6. Zamani, I. (2015). *Optimal distributed generation planning based on NSGA-II and MATPOWER* (Doctoral dissertation, Brunel University London). (**3 puncte**)

2.9.9. LUCRAREA:

Grigoraş, G., & Scarlatache, F. (2014, May). Use of data from smart meters in optimal operation of distribution systems. In *2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* (pp. 179-184). IEEE. (**1 punct**)

a fost citata in lucrarile:

1. Dev, V. C., Das, U., Namboodiri, V., Chakraborty, S., Aravinthan, V., Guo, Y., & Srivastava, A. (2015, November). Towards application-aware data concentration schemes for advanced metering infrastructures. In *2015 IEEE International Conference on Smart Grid Communications (SmartGridComm)*(pp. 440-445). IEEE. (**1 punct**)

2.9.10. LUCRAREA:

Cartina, G., Grigoras, G., & Bobric, E. C. Clustering techniques for energy losses evaluation in distribution networks. In *2009 IEEE Bucharest PowerTech*. (**7 puncte**)

a fost citata in lucrarile:

1. Zhang, Y. J., Zhang, X. T., Li, Q. H., Ran, L., & Cai, Z. X. (2014). Gray theory based energy saving potential evaluation and planning for distribution networks.*International Journal of Electrical Power & Energy Systems*, *57*, 298-303. (**5 puncte**)
2. Zhang, Y. J., & Zhan, X. T. (2012, September). Study on energy saving potential evaluation for distribution networks. In *Power Engineering and Automation Conference (PEAM), 2012 IEEE* (pp. 1-3). IEEE. (**1 punct**)
3. Chen, B., Cui, T., Ye, L., & Li, C. (2015, November). A comprehensive energy saving potential evaluation method for the distribution networks. In *2015 5th International Conference on Electric Utility Deregulation and Restructuring and Power Technologies (DRPT)* (pp. 478-481). IEEE. (**1 punct**)

2.9.11. LUCRAREA:

Cartina, G., Alexandrescu, V., Grigoras, G., & Moshe, M. (2000, May). Peak load estimation in distribution networks by fuzzy regression approach. In*Electrotechnical Conference, 2000. MELECON 2000. 10th Mediterranean* (Vol. 3, pp. 907-910). IEEE. (**10 puncte**)

a fost citata in lucrarile:

1. Zhong, S., & Tam, K. S. (2012). A frequency domain approach to characterize and analyze load profiles. *IEEE Transactions on Power Systems*, *27*(2), 857-865. (**5 puncte**)
2. Wang, J. Z., Wu, L., & Lu, H. Y. (2007, November). Special periods peak load analysis and superior forecasting method based on LS-SVM. In *2007 International Conference on Wavelet Analysis and Pattern Recognition* (Vol. 1, pp. 249-253). IEEE. (**2 puncte**)
3. Moda, H. P. (2009). *Non-Negative Least Square Optimization Model for Industrial Peak Load Estimation* (Doctoral dissertation, Virginia Polytechnic Institute and State University). (**3 puncte**)

2.9.12. LUCRAREA:

Grigoras, G., Scarlatache, F., & Cartina, G. Load estimation for distribution systems using clustering techniques. In *2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)*. (**1 puncte**)

a fost citata in lucrarile:

1. Semeraro, L., Crisostomi, E., Franco, A., Landi, A., Raugi, M., Tucci, M., & Giunta, G. (2014, October). Electrical load clustering: The Italian case. In *IEEE PES Innovative Smart Grid Technologies, Europe* (pp. 1-6). IEEE. (**1 punct**)

2.9.13. LUCRAREA:

Grigoras, G., Cartina, G., Istrate, M., & Rotaru, F. (2011). The efficiency of the clustering techniques in the energy losses evaluation from distribution networks. *International Journal of Mathematical Models and Methods in Applied Sciences*, *5*(1), 133-140. (**3 puncte**)

a fost citata in lucrarile:

1. Philippopoulos, K., Deligiorgi, D., & Kouroupetroglou, G. (2014), Performance Comparison of Self-Organizing Maps and k-means Clustering Techniques for atmospheric circulation classification. *International Journal of Energy and Environment*, *8*, 171-180. (**3 puncte**)

2.9.14. LUCRAREA:

Istrate, M., & Grigoraş, G. (2010). Energy consumption estimation in water distribution systems using fuzzy techniques. *Environmental Engineering & Management Journal (EEMJ)*, *9*(2). (**10 puncte**)

a fost citata in lucrarile:

1. Bucur, D. M., Bunea, F., Ciocan, G. D., Băran, G., & Isbăşoiu, E. C. (2010). Water parameters evolution in a hydroelectric site. *Environmental Engineering and Management Journal*, *9*(11), 469-472. (**5 puncte**)
2. Geng, Y., Zhang, J., Zhou, Q., Xu, C., & Zhao, Y. Q. (2011). Fuzzy synthetic evaluation of Weihe water quality, *Environmental Engineering and Management Journal*, 10 (10), 1477-1484 (**5 puncte**)

2.9.15. LUCRAREA:

Grigoras, G., Cartina, G., Bobric, E. C., & Rotaru, F. (2010, May). Evaluation of the performances of efficient transformers in distribution networks by fuzzy techniques. In *Optimization of Electrical and Electronic Equipment (OPTIM), 2010 12th International Conference on* (pp. 1281-1284). IEEE. (**7 puncte**)

a fost citata in lucrarile:

1. Cardenas, J. A., Gemoets, L., Rosas, J. H. A., & Sarfi, R. (2014). A literature survey on smart grid distribution: an analytical approach. *Journal of Cleaner Production*, *65*, 202-216. (**5 puncte**)
2. Andruşcă, M., Adam, M., Baraboi, A., Dragomir, A., & Munteanu, A. (2014, October). Using fuzzy logic for diagnosis of technical condition of power circuit breakers. In *Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on* (pp. 268-273). IEEE. (**2 puncte**)

2.9.16. LUCRAREA:

Grigoras, G., Cartina, G., & Bobric, E. C. (2010, April). An improved fuzzy method for energy losses evaluation in distribution networks. In *Melecon 2010-2010 15th IEEE Mediterranean Electrotechnical Conference* (pp. 131-135). IEEE. **(5 puncte)**

a fost citata in lucrarile:

1. Sharma, D. D., & Singh, S. N. (2015). Aberration detection in electricity consumption using clustering technique. *International Journal of Energy Sector Management*, *9*(4), 451-470. (**3 puncte**)
2. Wang, Y., Li, L., & Yang, Q. (2015, August). Application of clustering technique to electricity customer classification for load forecasting. In *Information and Automation, 2015 IEEE International Conference on* (pp. 1425-1430). IEEE. (**1 punct**)
3. Sanchez, V. A., Lima, D. A., Ochoa, L. F., & Oliveira, M. E. (2015, June). Statistical Top-Down approach for energy loss estimation in distribution systems. In *PowerTech, 2015 IEEE Eindhoven* (pp. 1-6). IEEE. (**1 punct**)

2.9.17. LUCRAREA:

Grigoras, G., Cartina, G., Bobric, E. C., & Barbulescu, C. (2009, June). Missing data treatment of the load profiles in distribution networks. In*PowerTech, 2009 IEEE Bucharest* (pp. 1-5). IEEE. (**6 puncte**)

a fost citata in lucrarile:

1. Porumb, R., & Seritan, G. (2015). Load Profiles Definition for the Electrical Distribution Operator. *Acta Electrotehnica*, *56*(3). (**3 puncte**)
2. Radu Porumb, Petru Postolache, George Seriţan, Ramona Vatu, Oana Ceaki (2013). Load Profiles analysis for Electricity Market*, Computational Methods in Social Sciences*, 1(2), 30-38.(**3 puncte**)

2.9.18. LUCRAREA:

Scarlatache, F., & Grigoraş, G. (2014, May). Optimal coordination of wind and hydro power plants in power systems. In *2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* (pp. 689-694). IEEE. (**3 puncte**)

a fost citata in lucrarile:

1. Odero, N. A., & Okinda, V. O. (2015). A review of techniques in optimal sizing of hybrid renewable energy systems. *International Journal of Research in Engineering and Technology*, 4(11), 153-163. (**3 puncte**)

2.9.19. LUCRAREA:

Grigoras, G., & Scarlatache, F. (2013, May). Energy losses estimation in electrical distribution networks with a decision trees-based algorithm. In *2013 8TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE)* (pp. 1-4). IEEE. (**6 puncte**)

a fost citata in lucrarile:

1. Fu, X., Chen, H., Cai, R., & Xuan, P. (2016). Improved LSF method for loss estimation and its application in DG allocation. *IET Generation, Transmission & Distribution*. (**5 puncte**)
2. Sanchez, V. A., Lima, D. A., Ochoa, L. F., & Oliveira, M. E. (2015, June). Statistical Top-Down approach for energy loss estimation in distribution systems. In *PowerTech, 2015 IEEE Eindhoven* (pp. 1-6). IEEE. (**1 punct**)

2.9.20. LUCRAREA:

Cârţină G, Grigoraş G, Bobric EC *Tehnici de clustering în modelarea fuzzy. Aplicații în energetică,* Casa de editura VENUS, 2005 (**8 puncte**)

a fost citata in lucrarile:

1. G. Chicco, *(2012)*, Overview and performance assessment of the clustering methods for electrical load pattern grouping, Energy, 42(1), 68-80. (**5 puncte**)
2. G. Chicco (2010) Clustering Methods For Electrical Load Pattern Classification, Scientific Bulletin of the Electrical Engineering Faculty, 10(3). (**3 puncte**)

2.9.21. LUCRAREA:

Grigoras, G., & Istrate, M. (2011). An efficient clustering method in evaluation of the electric energy consumption from water hydrophore stations.*International Review on Modelling and Simulations*, *4*(2). (**3 puncte**)

a fost citata in lucrarile:

1. Yan, J., Qi, M., Fang, L., Wang, Y., & Yu, J. (2013). Using Multi-Vector DBSCAN Algorithm to Cluster the Distribution of Urban Water Point.*International Review on Computers and Software (IRECOS)*, *8*(1), 170-173. (**3 puncte**)

2.9.22. LUCRAREA:

Scarlatache, F., & Grigoras, G. (2014, October). Influence of wind power plants on power systems operation. In *Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on* (pp. 1010-1014). IEEE. (**1 punct**)

a fost citata in lucrarile:

1. Ali, S. A., Nawaz, M. F., Bilal, M., Ahmad, F., & Hayat, U. Y. (2015, June). Modeling of wind power plant using MATLAB. In *Power Generation System and Renewable Energy Technologies (PGSRET), 2015* (pp. 1-5). IEEE. (**1 punct**)

2.9.23. LUCRAREA:

Grigoras, G., Barbulescu, C., Cartina, G., & Comanescu, D. (2012). Human Errors Monitoring in Electrical Transmission Networks**,** *Journal of Energy and Power Engineering*, 6(3), 425-428. (**3 puncte**)

a fost citata in lucrarile:

Wójcicki, T. (2015), Synergy Model of Artificial Intelligence and Augmented Reality in the Processes of Exploitation of Energy Systems. *Journal of Energy and Power Engineering*, 10, 425-428. (**3 puncte**)

	2.9.24. LUCRAREA: Comanescu, D., Grigoras, G., Cartina, G., & Rotaru, F. (2010, May). Determination of typical load profiles in hydro-power plant by clustering techniques. In *Optimization of Electrical and Electronic Equipment (OPTIM), 2010 12th International Conference on* (pp. 1294-1297). IEEE. (**2 puncte**) a fost citata in lucrarile: Surai, J., & Surapatana, V. (2014, March). Load factor improvement in industrial sector using load duration curves. In *Electrical Engineering Congress (iEECON), 2014 International* (pp. 1-4). IEEE. (**2 puncte**) 2.9.25. LUCRAREA: Kriukov, A., Grigoras, G., Gavrilas, M., Scarlatache, F., & Neagu, B. *(2014) Use of fuzzy techniques in reliability assessment of electric distribution systems*. in Proceedings of IEEE 16th international conference on harmonics and quality of power (ICHQP) (pp. 29–33) (**5 puncte**) a fost citata in lucrarea: Eduardo Verri Liberadoa, Fernando Pinhabel Marafãob, Marcelo Godoy Simõesc, Wesley Angelino de Souzaa, José Antenor Pomilioa (2015*),* Novel expert system for defining power quality compensators, *Expert Systems with Applications,* 42(7), 3562–3570. (**5 puncte**) 2.9.26. LUCRAREA Cârţină Gh, Hua-Song Y., Grigoraş Gh, *Optimal Operation and Planning of Power Systems,* Casa de Editura VENUS, Iasi, 2003: (**3 puncte**) a fost citata in lucrarea: 1. Bobric, E. C., Irimia, D., Rata, G., & Rata, M. Planning and Management of the Power System Using Dsatools'software, *ANNALS of the ORADEA UNIVERSITY*, Fascicle of Management and Technological Engineering, Volume IX (XIX), 2010, NR1. (**3 puncte**) 2.9.27. LUCRAREA Fl. Scarlatache, Gh. Grigoras (2012) An Approach Regarding the Placement Of Distributed Generation Sources In Electric Distribution Systems Using Hurwitz Criterion, *Buletinul Institului Politehnic din Iasi*, Seria Electrotehnica, Energetica, Tomul LVIII(LXII), 4, 109 – 117 (**3 puncte**) a fost citata în lucrarea: 1. Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (**3 puncte**) 2.9.28. LUCRAREA Grigoras G, Alexandrescu V, Cartina G. (2013), Estimation of Power/Energy Losses in Electric Distribution Systems based on an Efficient Method, *TELKOMNIKA Indonesian Journal of Electrical Engineering*, 11(9), 4854-4860 (**3 puncte**) a fost citata in lucrarea: 1. Hui Gao, Yingjun Wu The Research Status and Development Trend of Electric Vehicle Power Supply Technology*, TELKOMNIKA Indonesian Journal of Electrical Engineering*, 12(11), 7690-7696. (**3 puncte**)	
	2.11. Finalizare teză de doctorat **Realizări:**	**0**
	2.12. Elaborare standarde **Realizări:**	**0**
Total punctaj Criteriu 2		**1114,3**
3. Recunoaşterea naţională şi internaţională (minimum: • 15 puncte prof.; • 10 puncte conf.; • 5 puncte ș. l.)	**3.1**. Profesor invitat pentru prelegeri la univ. de prestigiu **Realizări:**	**0**
	3.2. Membru în academii (Academia Română, Academia de Ştiinţe Tehnice, Academia de Ştiinţe Agricole şi Silvice, Academia Oamenilor de Ştiinţă etc.) **Realizări:**	**0**
	3.3. Doctor Honoris Causa **Realizări:**	**0**
	3.4. Membru în societăţi ştiinţifice şi profesionale **Realizări:** 3.4.1. AGIR 3.4.2. SETIS	**10**
	3.5. Membru în comisii de doctorat **Realizări:**	**0**
	3.6. Membru în colective de redacţie ale revistelor **Realizări:** **Reviste incluse în BDI** 3.6.1. *Journal of Network and Communication Technologies, Canada* (http://www.ccsenet.org/journal/index.php/nct/about/editorialTeam) 3.6.2. Energy & Power, http://inventi.in/journal/editorial_board/impact/18/energy-power 3.6.3. Modeling & Simulation, http://inventi.in/journal/editorial_board/impact/96/modeling-simulation 3.6.4. Fuzzy Systems, http://inventi.in/journal/editorial_board/impact/89/fuzzy-systems 3.6.5. Turkish Journal of Engineering and Technology, http://tjetjournal.com/?p=24 3.6.6. Artificial Intelligence, http://inventi.in/journal/editorial_board/impact/73/artificial-intelligence 3.6.7. Engineering Mathematics, http://inventi.in/journal/editorial_board/impact/88/engineering-mathematics	**70**
	3.7. Membru în comitete ştiinţifice naţionale/ internaţionale/ de program (la congrese, conferinţe etc.) **Realizări:**	**60**

	3.7.1. SAI Intelligent Systems Conference, Londra, UK, 2015; (http://saiconference.com/Conferences/IntelliSys2015) 3.7.2. The 2015 International Conference on Computational Science and Computational Intelligence (CSCI'15), Las Vegas, USA, 2015.(http://americancse.org/events/csci2015/committees) 3.7.3. International Conference on Electrical and Electronics: Techniques and Applications, Phuket, Thailand, 2015; (http://www.eeta2015.org/com.html) 3.7.4. International Conference on Education, Management and Systems Engineering, Phuket, Thailand, 2015; (http://www.emse2015.org/com.html) 3.7.5. International Conference on Sustainable Energy and Environmental Engineering, Bangkok, Thailand 2015; (http://www.seee2015.org/com.htm) 3.7.6. Science and Information Conference, London, UK, 2015 (http://saiconference.com/Downloads/SAIConference2015/SAI%20Conference%20Program.pdf)	
	3.8. Membru în echipe de expertizare / evaluare a cercetării ştiinţifice (proiecte CNCS, PNCDI II, FP7, Phare; centre de cercetare etc.) **Realizări:**	**0**
	3.9. Membru în echipe de expertizare (evaluare) a procesului educaţional (ARACIS, EUA etc.) **Realizări:**	**0**
	3.10. Membru în consilii naţionale de specialitate **Realizări:**	**0**
	3.11. Organizator de manifestări ştiinţifice naţionale / internaţionale / sesiuni invitate **Realizări:** International Committee Chair: International Conference on Education, Management and Systems Engineering, Phuket, Thailand, 2015; (http://www.emse2015.org/com.html)	**15**
	3.12. Referent ştiinţific / expert naţional şi internaţional (pentru reviste, congrese etc.) **Realizări:** **Jurnale Internationale (478 puncte)** 3.12.1. Energy - Jurnal ISI (**310 puncte**) Lucrarile (EGY-D-14-04522, EGY-D-14-04686, EGY-D-15-00408, EGY-D-14-04154R1, EGY-D-15-00614, EGY-D-14-03880R1, EGY-D-15-00374, EGY-D-15-01109, EGY-D-15-01145, EGY-D-15-00408R1, EGY-D-15-01347, EGY-D-15-01599, EGY-D-15-01697, EGY-D-15-00614R1, EGY-D-15-01258, EGY-D-15-00374R1, EGY-D-15-02011, EGY-D-15-01697R1, EGY-D-15-01599R1, EGY-D-15-02629, EGY-D-14-04686R1, EGY-D-15-01145R1, EGY-D-15-03126, EGY-D-15-02992, EGY-D-15-00159R1, EGY-D-15-04080, EGY-D-15-03645, EGY-D-15-02113, EGY-D-15-04635, EGY-D-15-03854, EG Y-D-15-02629R1. 3.12.2. Energies – Jurnal ISI (**10 puncte**) Lucrarea: energies-70308 3.12.3. *IEEE Transactions on Power Systems* – Jurnal ISI (**10 puncte**) Lucrarea: TPWRS-00281-2015 3.12.4. The International Journal for Computation and Mathematics in Electrical and Electronic Engineering COMPEL – Jurnal ISI (**20 puncte**) Lucrarile: COMPEL-05-2015-0197; COMPEL-08-2015-0269; 3.12.5. International Journal of Advanced Research in Artificial Intelligence – Jurnal BDI (**25 puncte**) (http://thesai.org/Reviewers?current=1&filter=G&journal=IJARAI) Lucrarile: IJARAI ID1, IJARAI ID2, IJARAI ID3, IJARAI ID4, IJARAI ID5. 3.12.6. WSEAS Transactions on Power Systems – Jurnal BDI (**160 puncte**) Lucrarile: 5716-232; 5716-236; 5716-253;5716-313;5716-316;5716-317;5716-319; 5716-322; 5716-325; 5716-326;5716-327;5716-336;5716-354;5716-358;5716-359;5716-362;5716-363;5716-365;5716-367;5716-370;5816-372;5816-379;5816-381;5816-383;5816-386;5816-390;5816-392;5816-394;5816-423;5816-434. 3.12.7. WSEAS Transactions on Systems and Control – Jurnal BDI (**3 puncte**) Lucrarea: 5803-494; **Conferinte Internationale (45 puncte)** 3.12.8. *7th* Science and Information Conference, London, UK, 2015 (**12 puncte**) Lucrarile: ID 339, 395,408, 464 3.12.9. SAI Intelligent Systems Conference, London, UK, 2015 (**21 puncte**) Lucrarile: ID 4, 34,67, 85, 142, 171, 207 3.12.10. International Conference on Sustainable Energy and Environmental Engineering, Bangkok, Thailand 2015 (**15 puncte**) Lucrarile: ID E109, E133, E139, E140, E148 3.12.11. International Conference on Education, Management and Systems Engineering, Phuket, Thailand, 2015; (**9 puncte**) Lucrarile: ID E004, E008, E011 3.12.12. International Conference on Electrical and Electronics: Techniques and Applications, Phuket, Thailand, 2015 (**3 puncte**) Lucrarea: ID E003	**523**
	3.13. Membru în comisii de concurs pentru posturi didactice universitare **Realizări:**	**0**

	3.14. Membru în jurii, comisii, concursuri profesionale **Realizări:**	**0**
	3.15. Cercetător invitat pentru activităţi de cercetare în universităţi/firme de prestigiu	**0**
	3.16. Cadru didactic invitat în programe ERASMUS (prelegeri)	**0**
	3.17. Cadru didactic care gestioneaza acorduri bilaterale ERASMUS	**0**
	3.18. Premii *MEN,CNCS* (**40 puncte**) • Premiu pentru activitatea de cercetare în anul 2015 pentru lucrarea An assessment of the renewable energy potential using a clusteringbased data mining method. Case study in Romania din ENERGY (factor de impact 4,84). (Premiu național)	**40**
Total punctaj Criteriu 3		**718**
4. Activitatea cu studenţii*) (minimum: • 10 puncte prof.; • 7 puncte conf.; • 5 puncte ș.l.)	**4.1.** Conducere cercuri ştiinţifice studenţeşti **Realizări:** 4.1.1. **2 lucrari**: Bobric Diana - Studiu comparativ privind evaluareapierderilor în transformatoarele din rețelele electrice de distributie Garbea Razvan – Evaluarea pierderilor in retelele electrice de joasă tensiune	**6**
	4.2. Pregătire pentru concursuri profesionale (pentru fazele naţională şi internaţională) **Realizări:**	**0**
	4.3. Conducere lucrări de absolvire[2)], licenţă (diplomă), disertaţie, doctorat (inclusiv cotutelă, membri în echipa de îndrumare) **Realizări:** 4.3.1. 2 *lucrari de disertatie* (**10 puncte**) Mihaila Laureantiu, MEM Gimiga Lucica, MSE 4.3.2. *5 lucrari de licenta* **(15 puncte)** Garbea Razva ISE; Bobric Diana ISE; Cicanel Marius ISE; Maties Alexandru ME Ailenei Vasile ME	**25**
	4.4. Îndrumare ani de studii **Realizări:** 4.4.1. Anul IV, 6405 – Inginerie Energetica	**5**
Total punctaj Criteriu 4		**36**
5. Activitatea în comunitatea academică (minimum: • 15 puncte prof.; • 10 puncte conf.); • 5 puncte ș.l.;	**5.1.** Participare la simpozioane, mese rotunde etc. **Realizări:** 5.1.1. Masa Rotunda: Tehnologii moderne in exploatarea retelelor electrice de distributie, Iaşi, Romania, Octombrie 2015.	**1**
	5.2. Activitate în comisii **Realizări:** 5.2.1. Membru al consiliului facultăţii 5.2.2. Responsabil comisia de orar pe facultate 5.2.3 Membru comisia licenta ISE – sesiunea septembrie 5.2.4. Comisie promovare facultate 5.2.5. Membru al Comisiei de admitere 5.2.6. Membru Comisia de Achizitie proiect ENERED mobilier INDISREG 5.2.7. Membru Comisia de Achizitie proiect ENERED software INDISREG 5.2.8. Membru Comisia de Achizitie proiect ENERED dispozitiv PMU INDISREG 5.2.9. Membru Comisia de Achizitie proiect ENERED retea calculatoare INDISREG 5.2.10. Membru Comisia de Achizitie proiect ENERED reabilitare laborator INDISREG	**58**
	5.3. Coordonare programe de studii de licență/ masterat/ postuniversitare de formare continuă **Realizări:**	**0**
Total punctaj Criteriu 5		**59**
Total punctaj Criterii 1-5		**2105,57**
6. Evaluarea de către Directorul de Departament (0-50 puncte)	**Justificări:** • **.....;** • **.....;** • **.....;** • **.....;** • **.....**	
Total general		

*) conform Fişei postului

UNIVERSITATEA TEHNICĂ „GHEORGHE ASACHI” DIN IAŞI

FACULTATEA DE Inginerie Electrică, Energetică şi Informatică Aplicată

DEPARTAMENTUL de Energetică

FIȘA DE AUTOEVALUARE
Și DE EVALUARE DE CĂTRE DIRECTORUL DE DEPARTAMENT-2016

(pentru activitatea în departamentul de încadrare conform contractului de muncă)

Numele şi prenumele cadrului didactic evaluat	**Grigoras Gheorghe**
Funcţia didactică	**sef lucr. dr. ing.**

Criteriul de evaluare	**Indicatori de performanţă** **(cu explicitarea modului de calcul a punctajului pentru fiecare realizare, conf. anexa 1)**	**Punctaj**
1. Activitate didactică* (minimum: • 30 puncte prof.; • 15 puncte conf.; • 10 puncte ș.l.; • 5 puncte as.)	**1.1.** Predare discipline/ cursuri noi în planul de învăţământ, pe direcţii neelaborate anterior **Realizări:** Optimization Techniques in Electrical Engineering – an III E EEC (anii universitari 2012/2013 și 2013/2014)	**25**
	1.2. Elaborare manuale universitare (inclusiv în sistem e-learning) 1.2.1. Cursuri (**37.20 puncte**) **Realizări:** **Gh. Grigoraş,** Metode numerice in inginerie. Aplicatii in Matlab, Vol. II, Editura PIM, 2012, **124 pag**. ISBN: 978-606-13-0770-8. 1.2.2. Indrumar laborator (**6.05 puncte**) **Gh. Grigoras**, Fl. Scarlatache, Metode numerice. Aplicatii practice, Editura PIM, 2014, **173 pag.**, ISBN: 978-606-13-2143-8. (**6.05 puncte**)	**43.25**
	1.3. Elaborare suporturi de cursuri, seminarii, laboratoare, proiecte **Realizări:** 1.3.1. **Gh. Grigoras**, Optimization Techniques in Electrical Engineering, Suport de curs, format electronic, 2012 **(120 pag) - (3,6 puncte)**	**3.6**
	1.4. Elaborare manuale şi alte materiale pentru învăţământul preuniversitar **Realizări:**	**0**
	1.5. Modernizare tehnologie didactică **Realizări:** **Dotare cu aparatură, echipamente, materiale, material curricular auxiliar, în scop didactic (7389.6 lei) – (52.78 puncte)** **Laborator Tehnici moderne de conducere – master MSE. Programe soft (15 puncte)** Estimarea fiabilității sistemelor de distribuție folosind modele fuzzy Evaluarea variațiilor lente de tensiune din sistemele de distribuție folosind tehnici fuzzy Evaluarea economica a variantelor de dezvoltare a sistemelor energetice in conditii de incertitudine folosind modelarea fuzzy	**67.78**
Total punctaj Criteriu 1		**139.63**
2. Cercetarea ştiinţifică (minimum: • 150 puncte prof.; • 100 puncte conf.; • 60 puncte ș.l.; • 30 puncte asist.)	**2.1.** Elaborare cărţi/ monografii/ tratate **Realizări:** 2.1.1. **Gh. Grigoras**, Gh. Cartina, E.C. Bobric, Trends and Directions for Energy Saving in Electric Networks, capitol in cartea Management of Techological Innovation in Developing and Developed Countries, Ed. INTECH, Croatia, 2012, ISBN:978-953-51-0365-3 (**24 pag**) – (**4 puncte**) 2.1.2. **Gh. Grigoras**, Florina Scarlatache, Bogdan-Constantin Neagu, Clustering in Power Systems. ApplicationsvEd. Lambert Academic Publishing, Germany, 2016, 264 pag. ISBN: 978-3-8473-2793-6 (**210 pag.**) – (**105 puncte**)	**109**
	2.2. Articole publicate în reviste de specialitate **Realizări:** **a. Reviste cotate ISI (259.62 puncte)** 2.2.1. Rotaru Fl, Chicco G., **Grigoras Gh**., Cartina Gh., Two-stage distributed generation optimal sizing with clustering-based node selection, International Journal of Electrical Power & Energy Systems, Volume 40, Issue 1, September 2012, Pages 120–129 (FI = 3,43) – (**41,8 puncte**) 2.2.2. **Grigoras Gh.**, Cartina Gh., The fuzzy correlation approach in operation of electrical distribution systems, The International Journal for Computation and Mathematics in Electrical and Electronic	**405.62**

	Engineering Vol. 32 No. 3, 2013, pp. 1044-1066, (FI=0.371) - (**22,42 puncte**) 2.2.3. **Grigoras Gh.**, Barbulescu C., Human errors monitoring in electrical transmission networks based on a partitioning algorithm, Electrical Power and Energy Systems 49 (2013) 128–136, http://dx.doi.org/10.1016/j.ijepes.2012.12.016. (FI = 3,43) - (**83,6 puncte**) 2.2.4. **Grigoras Gh.**, Scarlatache Fl., An assessment of the renewable energy potential using a clustering based data mining method. Case study in Romania, Energy, Volume 81, 1 March 2015, Pages 416–429, doi:10.1016/j.energy.2014.12.054. (FI = 4,81) - (**111,8 puncte**) **b. Reviste cotate BDI (146 puncte)** 2.2.5. Fl. Scarlatache, **Gh. Grigoraş**, A Wind Energy Profiling Method Based On Unsupervised Learning Techniques, Buletinul Institutului Politehnic din Iaşi, Secţia: Electrotehnică, Energetică, Electronică, Tomul LX (LXIV), Fasc. 2, 2014, pp. 9-17. (**15 puncte**) 2.2.6. **Gh. Grigoras** , Assessment of Electrical Load in Water Distribution Systems Using Representative Load Profiles-Based Method, Advances in Electrical Engineering, vol. 2014, Article ID 865621, 10 pages, 2014. doi:10.1155/2014/865621, ISSN: 2356-6655, ISSN: 2314-7636 (Online) (http://www.hindawi.com/journals/aee/2014/865621/). (**30 puncte**) 2.2.7. Fl. Scarlatache, **Gh. Grigoraş**, B. Neagu, The impact of distributed generation on the voltage control in electrical distribution networks, Energetica, Vol. 62, Nr. 3, pp. 105 – 110, ISSN: 1453-2360, 2014. (**10 puncte**) 2.2.8. **Gh. Grigoraş**, M. Gavrilaș, Maximum load estimation of consumers in low voltage networks using a clustering techniques based method, Energetica, Vol. 62, Nr. 3, pp. 90 – 94, ISSN: 1453-2360, 2014. (**15 puncte**) 2.2.9. M. Gavrilas, **Gh. Grigoras**, S. Buliga, C. Strugaru, Influence of Renewable Sources Integration on Technical Energy Losses in High Voltage Distribution Networks, Energetica, Vol. 63, Nr. 4, pp. 139 – 144, ISSN: 1453-2360, 2015. (**7.5 puncte**) 2.2.10. **Gh. Grigoras**, M. Gavrilas, S. Buliga, C. Strugaru, Solutions Regarding the Efficient Use of Transformers in Electric Distribution Networks, Energetica, Vol. 63, Nr. 4, pp. 145 – 149, ISSN: 1453-2360, 2015 (**7.5 puncte**). 2.2.11. B. Neagu, **Gh. Grigoras**, Fl. Scarlatache, Load Management in Distribution Systems with Smart Metering, Energetica, Vol. 63, Nr. 4, pp. 150 – 156, ISSN: 1453-2360, 2015.(**10 puncte**) 2.2.12. **Gh. Grigoras**, C. Bobric, Clustering Based Approach for Customers' Classification From Electrical Distribution Systems, U.P.B. Sci. Bull., Series C, Vol. 77, Iss. 2, 219-226, 2015. (**15 puncte**) 2.2.13. **Gh. Grigoras**, B. Neagu, Market Clearing Price Forecasting in Deregulated Electricity Markets Using a Fuzzy Approach, Acta Electrotehnica, Vo. 56, Nr. 3, pp. 113-116, 2015. (**15 puncte**) 2.2.14. B. Neagu, **Gh. Grigoras**, Data Mining Tools in Electricity Distribution Systems, Acta Electrotehnica, Vo. 56, Nr. 3, pp. 209-212, 2015. (**15 puncte**) 2.2.15. **Gh. Grigoras**, M. Gavrilas, Fl. Scarlatache, M. Cazacu, G. Cosarca, Assessing Energy Losses in Unbalanced Low Voltage Electric Distribution Networks, Energetica, Vol. 64, Nr. 2, pp. 53 – 59, ISSN: 1453-2360, 2016.(**6 puncte**)	
	2.3. Conferinţe invitate, lucrări comunicate la manifestări științifice **Realizări:** **a. Lucrări comunicate**	**0**
	2.4. Lucrări publicate în volumele conferinţelor **Realizări:** **a. Volume indexate ISI (183.32 puncte)** 2.4.1. B. Neagu, **Gh. Grigoras**, F. Scarlatache, The influence of harmonics on power losses in urban distribution networks, 2016 International Symposium on Fundamentals of Electrical Engineering (ISFEE) Bucuresti, Romania, June 30 2016-July 2 2016 (**16.66 puncte**) 2.4.2. **Gh. Grigoras**, B. Neagu, F. Scarlatache, Estimation of energy losses in distribution transformers using a fuzzy approach, 2016 International Symposium on Fundamentals of Electrical Engineering (ISFEE) Bucuresti, Romania, June 30 2016-July 2 2016 (**16.66 puncte**) 2.4.3. **Gh. Grigoras**, M. Gavrilas, Phase swapping of lateral branches from low-voltage distribution networks for load balancing, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, 20-22 Oct. 2016 (**25 puncte**) 2.4.4. F. Scarlatache, **Gh. Grigoras**, A fuzzy approach in optimal DG planning, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, 20-22 Oct. 2016 (**25 puncte**) 2.4.5. A. Banerjee; M. Gavrilas; **Gh. Grigoras**, S. Chattopadhyay, A fuzzy hybrid approach for reliability optimization problem in power distribution systems, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, 20-22 Oct. 2016 (**12.5 puncte**) 2.4.6. B. Neagu, **Gh. Grigoras**, Assesment of Slow Voltage Variations from the Electric Distribution Systems with Fuzzy Techniques, ECAI 2015 - 7th International Conference on Electronics, Computers and Artificial Intelligence, 25 June -27 June, 2015, București, Romania (**25 puncte**) 2.4.7. **Gh. Grigoras**, Fl. Scarlatache, Processing of Smart Meters Data for Peak Load Estimation of Consumers, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2015), Bucharest, Romania, 7 – 9 May 2015. (**25 puncte**) 2.4.8. Fl. Scarlatache, **Gh. Grigoras**, Placement of DG Sources Using a Clustering Based Partitioning Method in Distribution Systems, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2015), Bucharest, Romania, 7 – 9 May 2015. (**25 puncte**) 2.4.9. A. Banerjee, M. Gavrilas, **Gh. Grigoras**, S. Chattopadhyay, Decision making in assessment of RRAP of WSN using fuzzy-hybrid approach, 2015 IEEE International Conference on Advanced Networks and Telecommuncations Systems (ANTS), Kolkata, India, 15 – 18 december, 2015. (**12,5 puncte**) **b. Volume indexate BDI (57.5 puncte)** A. Banerjee,S. Chattopadhyay, A.K. Mukhopadhyay, **Gh. Grigoras**, A Fuzzy-ACO Algorithm to enhance Reliability Optimization through Energy Harvesting in WSN, International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016, Chennai, India, 03 Mar - 05 Mar 2016 (**7.5**	**240.82**

	puncte) Fl. Scarlatache, **Gh. Grigoras**, B. Neagu, Decision making methodology based on fuzzy logic in optimal DG location, 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, June 30 2016-July 2 2016 (**10 puncte**) B. Neagu, **Gh. Grigoras**, Fl. Scarlatache, Power losses estimation in harmonic polluted LV distribution networks with a fuzzy approach, 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, June 30 2016-July 2 2016 (**10 puncte**) **Gh. Grigoras**, B. Neagu, Market Clearing Price Forecasting in Deregulated Electricity Markets Using a Fuzzy Approach, The 6th International Conference on Modern Power Systems, Cluj-Napoca, Romania, 18-21 May, 2015. (**15 puncte**) B. Neagu, **Gh. Grigoras**, Data Mining Tools in Electricity Distribution Systems, The 6th International Conference on Modern Power Systems, Cluj-Napoca, Romania, 18-21 May, 2015. (**15 puncte**) **c. Volume neindexate (0 puncte)**	
	2.5. Brevete acordate, produse omologate **Realizări:** 2.5.1. ..... 2.5.2.	**0**
	2.6. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie **Realizări:**	**0**
	2.7. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare încheiate cu institute de cercetare, companii, regii, societăţi comerciale **Realizări:** 1. Servicii de consultanta de specialitate in proiectul E.ON Moldova Distributie de reducere a pierderilor tehnice in retelele de distributie pentru perioada 2014-2015 194.000 lei (6 persoane) (**32,33 puncte**) 2. Servicii de consultanta de specialitate in proiectul E.ON Distributie Romania S.A. de reducere a pierderilor tehnice in retelele de distributie a energiei electrice. 48.000 lei (5 persoane) (**9.6 puncte**)	**41.93**
	2.8. Creaţii de arhitectură, urbanism, restaurări, design şi arte plastice **Realizări:**	**0**
	2.9. Citări în reviste cotate ISI sau indexate în baze de date internaţionale (BDI) **Realizări:** a. **Citări în reviste cotate ISI sau indexate în baze de date internaţionale (BDI), în volume ale conferinelor indexate ISI sau BDI (343 puncte)** 2.9.1. LUCRAREA: Rotaru Fl, Chicco G., Grigoras Gh., Cartina Gh., Two-stage distributed generation optimal sizing with clustering-based node selection, International Journal of Electrical Power & Energy Systems, Vol. 40, No. 1, September 2012, Pages 120–129, doi:10.1016/j.ijepes.2012.02.012 (**160 puncte**) a fost citata in lucrarile: 1. Georgilakis, P. S., & Hatziargyriou, N. D. (2013). Optimal distributed generation placement in power distribution networks: models, methods, and future research. *IEEE Transactions on Power Systems*, 28(3), 3420-3428. (**5 puncte**) 2. Peik-Herfeh, M., Seifi, H., & Sheikh-El-Eslami, M. K. (2013). Decision making of a virtual power plant under uncertainties for bidding in a day-ahead market using point estimate method. *International Journal of Electrical Power & Energy Systems*, 44(1), 88-98. (**5 puncte**) 3. Ugranlı, F., & Karatepe, E. (2013). Multiple-distributed generation planning under load uncertainty and different penetration levels. *International Journal of Electrical Power & Energy Systems*, *46*, 132-144. (**5 puncte**) 4. Dehghanian, P., Hosseini, S. H., Moeini-Aghtaie, M., & Arabali, A. (2013). Optimal siting of DG units in power systems from a probabilistic multi-objective optimization perspective. *International Journal of Electrical Power & Energy Systems*, *51*, 14-26. (**5 puncte**) 5. Murthy, V. V. S. N., & Kumar, A. (2013). Comparison of optimal DG allocation methods in radial distribution systems based on sensitivity approaches.*International Journal of Electrical Power & Energy Systems*, *53*, 450-467. (**5 puncte**) 6. Rozali, N. E. M., Alwi, S. R. W., Manan, Z. A., Klemeš, J. J., & Hassan, M. Y. (2014). Optimal sizing of hybrid power systems using power pinch analysis.*Journal of Cleaner Production*, *71*, 158-167. (**5 puncte**) 7. Jahromi, M. E., Ehsan, M., & Meyabadi, A. F. (2012). A dynamic fuzzy interactive approach for DG expansion planning. *International Journal of Electrical Power & Energy Systems*, *43*(1), 1094-1105. (**5 puncte**) 8. Yadav, A., & Srivastava, L. (2014, January). Optimal placement of distributed generation: An overview and key issues. In *Power Signals Control and Computations (EPSCICON), 2014 International Conference on* (pp. 1-6). IEEE. (**2 puncte**) 9. De Souza, A. R. R., Fernandes, T. S. P., Aoki, A. R., Sans, M. R., Oening, A. P., Marcilio, D.	**486**

C., & Omori, J. S. (2013). Sensitivity analysis to connect distributed generation. *International Journal of Electrical Power & Energy Systems*, *46*, 145-152. (**5 puncte**)

10. Ugranlı, F., & Karatepe, E. (2013). Optimal wind turbine sizing to minimize energy loss. *International Journal of Electrical Power & Energy Systems*, *53*, 656-663. (**5 puncte**)
11. Ebrahimi, R., Ehsan, M., & Nouri, H. (2013). A profit-centric strategy for distributed generation planning considering time varying voltage dependent load demand. *International Journal of Electrical Power & Energy Systems*, *44*(1), 168-178. (**5 puncte**)
12. Vinothkumar, K., & Selvan, M. P. (2014). Hierarchical agglomerative clustering algorithm method for distributed generation planning. *International Journal of Electrical Power & Energy Systems*, *56*, 259-269. (**5 puncte**)
13. Li Jing, Wei Wei, Xin Huanhai, & Peng Yonggang. (2014). Based on the optimal allocation of wind power probability trend of distributed power. *Automation of Electric Power Systems*, 38 (14), 70G76. (**3 puncte**)
14. Chen, G., Chen, B., Dai, P., & Zhou, H. (2013). A Sustainability-Oriented Multiobjective Optimization Model for Siting and Sizing Distributed Generation Plants in Distribution Systems. *Mathematical Problems in Engineering*, *2013*. (**5 puncte**)
15. Matos, D. M. B., & Catalão, J. P. S. (2013). Geração Distribuída e os seus Impactes no Funcionamento da Rede Elétrica: Parte 2. *Potência*, *1*(2), 3. (**3 puncte**)
16. Sultana, S., & Roy, P. K. (2015). Oppositional krill herd algorithm for optimal location of distributed generator in radial distribution system. *International Journal of Electrical Power & Energy Systems*, *73*, 182-191. (**5 puncte**)
17. Hui, W., & Fangqiu, X. (2012, December). Different load models based on particle swarm algorithm for the siting and sizing optimization problem for distributed power. In *2012 10th International Power & Energy Conference (IPEC)* (pp. 19-24). IEEE. (**2 puncte**)
18. Morvaj, B., Evins, R., and Carmeliet, J. (2015). Bi-level optimisation of distributed energy systems incorporating non-linear power flow constraints. In *Proceedings of International Conference CISBAT 2015 Future Buildings and Districts Sustainability from Nano to Urban Scale* (No. EPFL-CONF-213433, pp. 859-864). LESO-PB, EPFL. (**1 punct**)
19. Gupta, P., Pandit, M., & Kothari, D. P. (2014, December). A review on optimal sizing and siting of distributed generation system: Integrating distributed generation into the grid. In *Power India International Conference (PIICON), 2014 6th IEEE* (pp. 1-6). IEEE. (**1 punct**)
20. Singh, A. K., & Parida, S. K. (2015). Allocation of distributed generation using proposed DMSP approach based on utility and customers aspects under deregulated environment. *International Journal of Electrical Power & Energy Systems*, *68*, 159-169. (**5 puncte**)
21. Prenc, R., Bogunović, N., & Cuculić, A. (2015). The effect of distributed generation type and location constraints on the solution of the allocation algorithm. *International Review of Electrical Engineering (IREE)*, *10*(1), 88-97. (**3 puncte**)
22. Dehghanian, P., Hosseini, S. H., Moeini-Aghtaie, M., & Arabali, A. (2013). Electrical Power and Energy Systems. *Electrical Power and Energy Systems*,*51*, 14-26. (**5 puncte**)
23. Tamayo, D. C. L., Burgos, P. A. N., & Lezama, J. M. L. (2015). Optimal location and sizing of distributed generation: a review of the state of the art.*REVISTA POLITÉCNICA*, *11*(20), 99-110. (**3 puncte**)
24. Georgilakis, P. S. (2013). Integration of Distributed Generation in the Power System, M. Bollen, F. Hassan. Wiley–IEEE Press, New Jersey (2011). (**5 puncte**)
25. Ugranlı, F., & Karatepe, E. (2015). Multi-objective transmission expansion planning considering minimization of curtailed wind energy. *International Journal of Electrical Power & Energy Systems*, *65*, 348-356. (**5 puncte**)
26. Huy, P. D., Ramachandaramurthy, V. K., & Pesaran, H. M. (2015, November). Optimal selection of location, sizing and power factor for solar PV plants using differential evolution. In *Smart Grid Technologies-Asia (ISGT ASIA), 2015 IEEE Innovative* (pp. 1-6). IEEE. (**1 punct**)
27. Chernykh, I., Chechushkov, D., & Panikovskaya, T. (2014). Optimal placement units of distributed generation. *WIT Transactions on Ecology and the Environment*, *190*, 445-454. (**3 puncte**)
28. Nojavan, S., Jalali, M., & Zare, K. (2015). An MINLP Approach for Optimal DG Unit's Allocation in Radial/Mesh Distribution Systems Take into Account Voltage Stability Index. *Iranian Journal of Science and Technology. Transactions of Electrical Engineering*,*39*(E2), 155. (**3 puncte**)
29. Othman, M. M., El-Khattam, W., Abdelaziz, A. Y., & Hegazy, Y. G. Multiple voltage controlled distributed energy resources sizing and allocation for virtual power plant realization. 16th International Middle- East Power Systems Conference -MEPCON'2014, Ain Shams University, Cairo, Egypt, December 23 - 25, 2014. (**1 punct**)
30. Kumawat, M., Gupta, N., Jain, N., & Saxena, D. (2015, January). Optimal distributed generation placement in power distributed networks: A review. In *Electrical, Electronics, Signals, Communication and Optimization (EESCO), 2015 International Conference on* (pp. 1-6). IEEE. (**1 punct**)
31. Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (**3 puncte**)
32. *E. R. Magaril, C. A. Brebbia, M. Y. Khodorovsky, Energy Productionand Management in the 21st Century, Vol 1, WIT Press, 2014.* http://books.google.ro/books?id=2nj4AgAAQBAJ&pg=PA453&lpg=PA453&dq

=Twostage+distributed+generation+optimal+sizing+with+clusteringbased+node+selection&source=bl&ots=dR2RFyEqcf&sig=YVOkc1SivLg0ZeZVw1gkuCW6k24&hl=en&sa=X&ei=AS6MU5zZLsWROKXkgKgD&redir_esc=y#v=onepage&q=Twostage%20distributed%20generation%20optimal%20sizing%20with%20clustering-based%20node%20selection&f=fals. (**3 puncte**)

33. *Whole sale Distributed Generation (WDG) Catalogue of Benefits,* http://www.clean-coalition.org/site/wp-content/uploads/2013/07/WDG-Catalogue-of-Benefits-04_jb-26-July-2013.pddf. (**3 puncte**)
34. SD. Meera Shareef, T.Vinod Kumar (2014), A Review on Models and Methods for Optimal Placement of Distributed Generation in Power Distribution System, *International Journal of Education and applied research (IJEAR)*, 4(1), 161-169. (**3 puncte**)
35. Syed Muhammad Arif, Akhtar Hussain and Dong Ryeol Shin, A Survey on Particle Swarm Optimization for Use in Distributed Generation Placement and Sizing, MATEC Web of Conferences, ICMIT 2016, 2016 (**2 puncte**)
36. Prakash, P., & Khatod, D. K. (2016). Optimal sizing and siting techniques for distributed generation in distribution systems: A review. Renewable and Sustainable Energy Reviews, 57, 111-130 (**5 puncte**)
37. Sultana, S., & Roy, P. K. (2016). Krill herd algorithm for optimal location of distributed generator in radial distribution system. Applied Soft Computing, 40, 391-404.(**5 puncte**)
38. Sultana, U., Khairuddin, A. B., Aman, M. M., Mokhtar, A. S., & Zareen, N. (2016). A review of optimum DG placement based on minimization of power losses and voltage stability enhancement of distribution system. Renewable and Sustainable Energy Reviews, 63, 363-378.(**5 puncte**)
39. Elahimanesh, A., Moghimi, S. M., & Aghamohammadi, M. R. (2016). Effect of distributed generation units on stability improving trend of IEEE 14 and 34 Bus test network voltage. Indian Journal of Science and Technology, 9(15). (**3 puncte**)
40. Bhadoria, V. S., Pal, N. S., & Shrivastava, V. (2016). Comparison of Analytical and Heuristic Techniques for Multiobjective Optimization in Power System. In Problem Solving and Uncertainty Modeling through Optimization and Soft Computing Applications (pp. 264-291). IGI Global (**3 puncte**)
41. Kumar, M., Kumar, A., & Sandhu, K. S. (2016). PV-WT Based Distribution Generator Location Minimizing Transmission Loss in Pool/Bilateral Electricity Market Model. Procedia Technology, 25, 692-701. (**3 puncte**)
42. Kools, L., & Phillipson, F. (2016). Data granularity and the optimal planning of distributed generation. Energy, 112, 342-352. (**5 puncte**)
43. HA, M. P., Huy, P. D., & Ramachandaramurthy, V. K. (2016). A review of the optimal allocation of distributed generation: Objectives, constraints, methods, and algorithms. Renewable and Sustainable Energy Reviews. (**5 puncte**)
44. YUAN Yue,WU Han,LU Dan,YANG Su,HUANG Junhui,GUAN Zhijian,HAN Jun, A Review of Active Distribution System Planning with High Penetration Distributed Generation, Distributia energiei, 2016, Vol. 1 Issue (1): 6-13 DOI: 10.16513/j.cnki.10-1427/tk.2016.01.003 (**3 puncte**)

2.9.2. LUCRAREA:

Bobric E.C., Cârţină Gh., **Grigoraş Gh**, *Clustering Techniques in Load Profile Analyze for Distribution Stations*, Journal of Advances in Electrical and Computer Engineering, Romania, Nr.1, 2009, pp. 63 – 66, ISSN: 1582 – 7445 (**59 puncte**)

a fost citata in lucrarile:

1. Rogers, D. F., & Polak, G. G. (2013). Optimal clustering of time periods for electricity demand-side management. *IEEE Transactions on Power Systems*,*28*(4), 3842-3851. (**5 puncte**)
2. Filote, C., Ciufudean, C., Alaci, S., & Cozgarea, A. M. (2011, August). Wavelet multiresolution analysis of TPRD and RNSIC input current. In *11th WSEAS International Conference on signal processing, computational geometry and artificial vision* (pp. 158-165). (**1 punct**)
3. Filote, C., Ciufudean, C., & Cozgarea, A. M. (2009, September). A comparative analysis of total harmonic distortion in TPRD and RNSIC. In *2009 13th European Conference on Power Electronics and Applications*. (**2 puncte**)
4. Piao, M., Li, M., & Ryu, K. H. (2010, June). Using Significant Classification Rules to Analyze Korean Customers' Power Consumption Behavior: Incremental Tree Induction using Cascading-and-Sharing Method. In *2010 10th IEEE International Conference on Computer and Information Technology*. (**1 punct**)
5. Filote, C., Ciufudean, C., Musteata, F., Chirila, O., & Cozgarea, A. M. (2010). New method for power factor correction with RNSIC. In *Proc. of Int. Conf. on Circuits, Systems, Signals, CSS* (pp. 353-358). (**2 puncte**)
6. Komenda, T., & Komenda, N. (2012). Morphometrical analysis of daily load graphs. *International Journal of Electrical Power & Energy Systems*, *42*(1), 721-727. (**5 puncte**)
7. Varga, E. D., Beretka, S. F., Noce, C., & Sapienza, G. (2015). Robust real-time load profile encoding and classification framework for efficient power systems operation. *IEEE Transactions on Power Systems*, *30*(4), 1897-1904. (**5 puncte**)
8. Beretka, S. F., & Varga, E. D. (2013). Efficient encoding of customer class load profiles. In *2013 Africon*. (**2 puncte**)

9. Beretka, S. F., & Varga, E. D. (2013, October). Locality sensitive hashing of customer load profiles. In *2013 International Conference on Renewable Energy Research and Applications (ICRERA)*. (**2 puncte**)
10. Brabec, M., Konár, O., Malý, M., Kasanický, I., & Pelikán, E. (2015). Statistical models for disaggregation and reaggregation of natural gas consumption data. *Journal of Applied Statistics*, *42*(5), 921-937. (**5 puncte**)
11. Falahi, M., Alavi, H., Shaygan, M., & Hojati, A. (2013, January). A new method for optimal planning in extensive distribution networks despite uncertain data. In *22nd International Conference and Exhibition on Electricity Distribution (CIRED 2013)*. (**1 punct**)
12. Filote, C., Ciufudean, C., Micea, M. V., & Cozgarea, A. M. Power Factor Improvement Using Rnsic Rectifier, *Proceedings of the IASTED International Conference*, November 24 - 26, 2010 Phuket, Thailand, Power and Energy Systems (AsiaPES 2010) (**1 punct**)
13. Rahideh, A., Gitizadeh, M., & Sadrzadeh, A. (2015, April). Voltage and reactive power control in a distribution system using hybrid SA-DBPSO algorithm. In *Electrical Power Distribution Networks Conference (EPDC), 2015 20th Conference on* (pp. 72-77). IEEE. (**2 puncte**)
14. Mujović, S., Djukanović, S., Radulović, V., Katić, V., & Rašović, M. (2013). Least Squares Modeling of Voltage Harmonic Distortion Due to PC Cluster Operation. *Advances in Electrical and Computer Engineering*, *13*(4). (**5 puncte**)
15. Mets, K., Depuydt, F., & Develder, C. (2015), Two-Stage Load Pattern Clustering Using Fast Wavelet Transformation, IEEE Transactions on Smart Grid (Volume:PP , Issue: 99), 23 July 2015, 10.1109/TSG.2015.2446935 (**5 puncte**)
16. Malik, F. H., Mubbashir, A., & Lehtonen, M. (2014). Collaborative Demand Response Optimization of Electric Vehicles and Storage Space Heating for Residential Peak Shaving. *International Review of Electrical Engineering (IREE)*, *9*(6), 1154-1161. (**3 puncte**)
17. Piao, M., Lee, J. B., Shon, H. S., Cha, E. J., Kim, K. A., & Ryu, K. H. (2011). Identification of Temporal Interval Relations of Frequent Patterns during Incremental Phase. In *International Conference on Computer Engineering and Technology, 3rd (ICCET 2011)*. ASME Press. (**2 puncte**)
18. Mets, K., Depuydt, F., & Develder, C. (2016). Two-stage load pattern clustering using fast wavelet transformation. IEEE Transactions on Smart Grid, 7(5), 2250-2259. (**5 puncte**)
19. Moussa, S. (2016). A Mobile-based Platform for Big Load Profiles Data Analytics in Non-Advanced Metering Infrastructures. In MATEC Web of Conferences (Vol. 76, p. 04023). EDP Sciences. (Moussa, S. (2016). A Mobile-based Platform for Big Load Profiles Data Analytics in Non-Advanced Metering Infrastructures. In MATEC Web of Conferences (Vol. 76, p. 04023). EDP Sciences. (**2 puncte**)
20. Blagojević, M., Micić, Ž., & Vujičić, M. (2016). Cluster analysis of knowledge sources in standardized electrical engineering subfields. Serbian Journal of Electrical Engineering, 13(3), 405-422. (**3 puncte**)

2.9.3. LUCRAREA:

Bobric E.C., Cârţină Gh., **Grigoraş Gh**., *Fuzzy Techniques used for Energy Losses Determination in Medium and Low Voltage Networks*, Journal of Electronics and Electrical Engineering, Lituania, Nr. 2 (90), 2009, pp. 95 – 98 (**27 puncte**)

a fost citata in lucrarile:

1. Lisauskas, S., & Rinkevičienė, R. (2015). Model of ventilation system drive with Fuzzy controller. *Elektronika ir Elektrotechnika*, *106*(10), 13-16. (**5 puncte**)
2. Han, Y., Xu, L., Yao, G., Zhou, M., & Chen, C. (2015). The adaptive signal processing scheme for power quality conditioning applications based on active noise control (ANC). *Elektronika ir Elektrotechnika*, *96*(8), 9-14. (**5 puncte**)
3. Filote, C., Ciufudean, C., & Cozgarea, A. M. (2009, September). A comparative analysis of total harmonic distortion in TPRD and RNSIC. In *2009 13th European Conference on Power Electronics and Applications*. (**2 puncte**)
4. Sylwester, F. (2011). Application of Classifier System and Co-Evolutionary Algorithm in Optimization of Medium-Voltage Distribution Networks Post-Fault Configuration. *Elektronika ir Elektrotechnika*, *115*(9), 9-15. (**5 puncte**)
5. Erguzel, T. T. (2013). Fuzzy controller parameter optimization using genetic algorithm for a real time controlled system. In *Proceedings of the World Congress on Engineering* (Vol. 2, pp. 3-5). (**2 puncte**)
6. Juraitis, S., Rinkeviciene, R., & Kriauciunas, J. (2011). Fuzzy Controller of Two-mass System. *Elektronika ir Elektrotechnika*, *116*(10), 3-6. (**5 puncte**)
7. Stępień, J., & Filipiak, S. (2014). Optimisation of Distribution Network Configuration with the Aid of Co-Evolutionary Algorithm with Regard for Reliability Coefficients Varying During Operation of Network Elements.*Universal Journal of Electrical and Electronic Engineering*, *2*(3), 97-104. (**3 puncte**)

2.9.4.LUCRAREA:

Gh. Grigoras, Gh. Cartina, M. Gavrilas, *Using of Clustering Techniques in Optimal Placement of Phasor Measurements Units",* , Proceedings of the 9th WSEAS/IASME International Conference on Electric Power Systems, High Voltages, Electric Machines, Genova, Italy, pp.104-108 (**9 puncte**)

a fost citata in lucrarile:

1. Priyadharshini, M., & Meenakumari, R. (2014, March). Probabilistic approach based optimal placement of phasor measurement units via the estimation of dynamic vulnerability assessment. In *Green Computing Communication and Electrical Engineering (ICGCCEE),*

2014 International Conference on (pp. 1-7). IEEE. (**2 puncte**)

2. Takata, M., Miyata, Y., & Nishikawa, N. (2015, March). Proposal of analytics software architecture with data preparation layer for fast event identification in wide-area situational awareness. In *Industrial Technology (ICIT), 2015 IEEE International Conference on* (pp. 1741-1746). IEEE. (**1 punct)**
3. Abdelaziz A. Y., Amr M. Ibrahim, Reham H. Salem (2013), Power system observability with minimum phasor measurement units placement, ,*International Journal of Engineering, Science and Technology,* Vol. 5, No. 3, 2013, pp. 1-18. (**3 puncte**)
4. Priyadharshini N, Meenakumari R, Priyadharshini M, Optimal Placement of Phasor Measurement Unit based on Power System Loss Index, Asian Journal of Research in Social Sciences and Humanities, 2016, Vol. 6, no. 11, pp. 479-491. (**3 puncte**)

2.9.5. LUCRARE:

Grigoras, Gh., Cartina, G., & Bobric, E. (2010). Strategies for Power/Energy Saving in Distribution Networks. *Advances in Electrical and Computer Engineering*, *10*(2), 61-64. (**26 puncte**)

a fost citata in lucrarile:

1. Xiao, P., & Liu, D. (2015). Improving network routing energy–efficiency for real–time workloads by stochastic service model. *International Journal of Information and Communication Technology*, *7*(2-3), 302-315. (**3 puncte**)
2. Selakov, A., Cvijetinović, D., & Ilić, S. (2012). Short term load forecasting using support vector machines for different consumer types. *Journal on Processing and Energy in Agriculture*, *16*(3), 128-131. (**3 puncte**)
3. Peng, X., Peixin, Q., & Xilong, Q. (2013). An Energy-aware Routing Mechanism for Latency-sensitive Traffics. *International Journal of Grid and Distributed Computing*, *6*(6), 23-36. (**3 puncte**)
4. Malik, F. H., Mubbashir, A., & Lehtonen, M. (2014). Collaborative Demand Response Optimization of Electric Vehicles and Storage Space Heating for Residential Peak Shaving. *International Review of Electrical Engineering (IREE)*, *9*(6), 1154-1161. (**3 puncte**)
5. Grujić, A., & Stojković, Z. (2016). Fuzzy logic-based concept for high-voltage substation risk management against lightning. *IEEJ Transactions on Electrical and Electronic Engineering*, 11(S1), S28-S36. (**3 puncte**)
6. Tang, C., Zhu, S., Li, J., Zhang, D., & Yang, J. (2014). A modified optimization model for the location selection of distribution transformer used in rural power network. *Journal of Computers*, *9*(4), 875-882. (**3 puncte**)
7. Sarchiz, D., Dub, V., & Bucur, D. (2010). Optimization Strategies to Increase Electrical Distribution Networks Robustness 20 kV and 110 kV from County Mures. *Scientific Bulletin of the" Petru Maior" University of Targu Mures*, *7*(2), 10. (**3 puncte**)
8. Grujić, A., & Stojković, Z. (2016). Fuzzy logic-based concept for high-voltage substation risk management against lightning. *IEEJ Transactions on Electrical and Electronic Engineering*, *11*(S1), S28-S36. (**5 puncte**)

2.9.6. LUCRAREA:

Grigoras, G., & Scarlatache, F. (2015). An assessment of the renewable energy potential using a clustering based data mining method. Case study in Romania. *Energy*, *81*, 416-429. (**42 puncte**)

a fost citata in lucrarile:

1. Meldon, J., & Benjamin, R. (2015), Renewable Energy Integration and the Algorithm of Power Generation and Cogeneration Management.*Journal of Electrical Engineering and Science,* 1(1). (**3 puncte**)
2. Darvishi, A., & Hassanpour, H. (2015). A Geometric View of Similarity Measures in Data Mining. *International Journal of Engineering-Transactions C: Aspects*, *28*(12), 1728. (**3 puncte**)
3. Sánchez-Lozano, J. M., García-Cascales, M. S., & Lamata, M. T. (2016). Comparative TOPSIS-ELECTRE TRI methods for optimal sites for photovoltaic solar farms. Case study in Spain. *Journal of Cleaner Production*, *127*, 387-398. (**5 puncte**)
4. Izadyar, N., Ong, H. C., Chong, W. T., & Leong, K. Y. (2016). Resource assessment of the renewable energy potential for a remote area: a review. Renewable and Sustainable Energy Reviews, 62, 908-923. (**5 puncte**)
5. Onea, F., & Rusu, E. (2016). The expected efficiency and coastal impact of a hybrid energy farm operating in the Portuguese nearshore. Energy, 97, 411-423. (**5 puncte**)
6. Proskurina, S., Sikkema, R., Heinimö, J., & Vakkilainen, E. (2016). Five years left–How are the EU member states contributing to the 20% target for EU's renewable energy consumption; the role of woody biomass. Biomass and Bioenergy, 95, 64-77. (**5 puncte**)
7. Yesilbudak, M. (2016, November). Clustering analysis of multidimensional wind speed data using k-means approach. In Renewable Energy Research and Applications (ICRERA), 2016 IEEE International Conference on (pp. 961-965). IEEE. (**2 puncte**)
8. Operacz, A. (2017). The term “effective hydropower potential” based on sustainable development–an initial case study of the Raba river in Poland. Renewable and Sustainable Energy Reviews, 75, 1453-1463. (**5 puncte**)
9. Kandemir, S. Y., & Yaylı, M. Ö. (2016). Investigation of Renewable Energy Sources for Airports. In Sustainable Aviation (pp. 11-16). Springer International Publishing. (**3 puncte**)
10. Lupu, A. G., Dumencu, A., Atanasiu, M. V., Panaite, C. E., Dumitrașcu, G., & Popescu, A. (2016, August). SWOT analysis of the renewable energy sources in Romania-case study:

solar energy. In IOP Conference Series: Materials Science and Engineering (Vol. 147, No. 1, p. 012138). IOP Publishing. (**2 puncte**)

11. Janczak, D.; Dach, J.; Czekala, W.; et al. (2015), Energy Use Of Greenhouse Waste Materials By Methane Fermentation, Proceedings of the 2nd International Conference On Energy & Environment: Bringing Together Engineering And Economics Book Series: ICEE International Conference on Energy & Environment, Guimaraes, PORTUGAL Date: JUN 18-19, 2015, Pages: 293-299 (**2 puncte**)
12. Czekala, Wojciech; Dach, Jacek; Czekala, Jacek, Operational Possibilities Of A Biogas Plant At The Brewery Under Polish Conditions, Proceedings of the 2nd International Conference On Energy & Environment: Bringing Together Engineering And Economics Book Series: ICEE International Conference on Energy & Environment, Guimaraes, PORTUGAL Date: JUN 18-19, 2015, Pages: 520-525 (**2 puncte**)

2.9.7. LUCRAREA:

Grigoras, G., Cartina, G., & Rotaru, F. (2010, October). Using K-means clustering method in determination of the energy losses levels from electric distribution systems. In *Proceedings of the 12th WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, Timisoara, Romania* (pp. 52-6). (**3 puncte**)

a fost citata in lucrarea:

1. Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (**3 puncte**)

2.9.8. LUCRAREA:

Cartina, G., Grigoras, G., & Bobric, E. C. (2007, October). Power system analysis using Matlab toolboxes. In *6th International Conference on Electromechanical and Power Systems, Chisinau, Rep. Moldova*. (**13 puncte**)

a fost citata in lucrarile:

1. Al-Sheikh, H., & Moubayed, N. (2012). An overview of simulation tools for renewable applications in power systems. In *2012 2nd International Conference on Advances in Computational Tools for Engineering Applications (ACTEA)*. (**2 puncte**)
2. Akorede, M. F., & Hizam, H. (2009, December). Teaching power system analysis courses using MATPOWER. In Engineering Education (ICEED), 2009 International Conference on (pp. 45-51). IEEE. 90 (**1 punct**)
3. Shaikh, S. K. M., & Dharme, A. A. (2009, December). Time of Use pricing-India, a case study. In *Power Systems, 2009. ICPS'09. International Conference on* (pp. 1-6). IEEE. (**1 punct**)
4. Tanwani, N. K., Memon, A. P., Adil, W. A., & Ansari, J. A. Simulation Techniques of Electrical Power System Stability Studies Utilizing Matlab/Simulink. *engineer*, *9*, 18. (**3 puncte**)
5. Bobric, E. C., Irimia, D., Rata, G., & Rata, M. Planning and Management of the Power System Using Dsatools'software, *ANNALS of the ORADEA UNIVERSITY*, Fascicle of Management and Technological Engineering, Volume IX (XIX), 2010, NR1.(**3 puncte**)
6. Zamani, I. (2015). *Optimal distributed generation planning based on NSGA-II and MATPOWER* (Doctoral dissertation, Brunel University London). (**3 puncte**)

2.9.9. LUCRAREA:

Grigoraş, G., & Scarlatache, F. (2014, May). Use of data from smart meters in optimal operation of distribution systems. In *2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* (pp. 179-184). IEEE. (**6 punct**)

a fost citata in lucrarile:

1. Dev, V. C., Das, U., Namboodiri, V., Chakraborty, S., Aravinthan, V., Guo, Y., & Srivastava, A. (2015, November). Towards application-aware data concentration schemes for advanced metering infrastructures. In *2015 IEEE International Conference on Smart Grid Communications (SmartGridComm)*(pp. 440-445). IEEE. (**1 punct**)
2. Uribe-Pérez, N., Hernández, L., de la Vega, D., & Angulo, I. (2016). State of the Art and Trends Review of Smart Metering in Electricity Grids. *Applied Sciences*, *6*(3), 68. (**5 puncte**)

2.9.10. LUCRAREA:

Cartina, G., Grigoras, G., & Bobric, E. C. Clustering techniques for energy losses evaluation in distribution networks. In *2009 IEEE Bucharest PowerTech*. (**12 puncte**)

a fost citata in lucrarile:

1. Zhang, Y. J., Zhang, X. T., Li, Q. H., Ran, L., & Cai, Z. X. (2014). Gray theory based energy saving potential evaluation and planning for distribution networks.*International Journal of Electrical Power & Energy Systems*, *57*, 298-303. (**5 puncte**)
2. Zhang, Y. J., & Zhan, X. T. (2012, September). Study on energy saving potential evaluation for distribution networks. In *Power Engineering and Automation Conference (PEAM), 2012 IEEE* (pp. 1-3). IEEE. (**1 punct**)
3. Chen, B., Cui, T., Ye, L., & Li, C. (2015, November). A comprehensive energy saving potential evaluation method for the distribution networks. In *2015 5th International Conference on Electric Utility Deregulation and Restructuring and Power Technologies (DRPT)* (pp. 478-481).

IEEE. (**1 punct**)

4. Schlueter, A., Geyer, P., & Cisar, S. (2016). Analysis of georeferenced building data for the identification and evaluation of thermal microgrids. Proceedings of the IEEE, 104(4), 713-725. (**5 puncte**)

2.9.11. LUCRAREA:

Cartina, G., Alexandrescu, V., Grigoras, G., & Moshe, M. (2000, May). Peak load estimation in distribution networks by fuzzy regression approach. In*Electrotechnical Conference, 2000. MELECON 2000. 10th Mediterranean* (Vol. 3, pp. 907-910). IEEE. (**10 puncte**)

a fost citata in lucrarile:

1. Zhong, S., & Tam, K. S. (2012). A frequency domain approach to characterize and analyze load profiles. *IEEE Transactions on Power Systems*, *27*(2), 857-865. (**5 puncte**)
2. Wang, J. Z., Wu, L., & Lu, H. Y. (2007, November). Special periods peak load analysis and superior forecasting method based on LS-SVM. In *2007 International Conference on Wavelet Analysis and Pattern Recognition* (Vol. 1, pp. 249-253). IEEE. (**2 puncte**)
3. Moda, H. P. (2009). *Non-Negative Least Square Optimization Model for Industrial Peak Load Estimation* (Doctoral dissertation, Virginia Polytechnic Institute and State University). (**3 puncte**)

2.9.12. LUCRAREA:

Grigoras, G., Scarlatache, F., & Cartina, G. Load estimation for distribution systems using clustering techniques. In *2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)*. (**8 puncte**)

a fost citata in lucrarile:

1. Semeraro, L., Crisostomi, E., Franco, A., Landi, A., Raugi, M., Tucci, M., & Giunta, G. (2014, October). Electrical load clustering: The Italian case. In *IEEE PES Innovative Smart Grid Technologies, Europe* (pp. 1-6). IEEE. (**1 punct**)
2. Ferraro, P., Crisostomi, E., Tucci, M., & Raugi, M. (2016). Comparison and clustering analysis of the daily electrical load in eight European countries. Electric Power Systems Research, 141, 114-123. (**5 puncte**)
3. Mihai, C., Popa, C., & Mircea, P. M. (2016, September). Load profiling for gas stations using cluster techniques. In Power Electronics and Motion Control Conference (PEMC), 2016 IEEE International (pp. 1041-1048). IEEE. (**2 puncte**)

2.9.13. LUCRAREA:

Grigoras, G., Cartina, G., Istrate, M., & Rotaru, F. (2011). The efficiency of the clustering techniques in the energy losses evaluation from distribution networks. *International Journal of Mathematical Models and Methods in Applied Sciences*, *5*(1), 133-140. (**3 puncte**)

a fost citata in lucrarile:

1. Philippopoulos, K., Deligiorgi, D., & Kouroupetroglou, G. (2014), Performance Comparison of Self-Organizing Maps and k-means Clustering Techniques for atmospheric circulation classification. *International Journal of Energy and Environment*, *8*, 171-180. (**3 puncte**)

2.9.14. LUCRAREA:

Istrate, M., & Grigoraş, G. (2010). Energy consumption estimation in water distribution systems using fuzzy techniques. *Environmental Engineering & Management Journal (EEMJ)*, *9*(2). (**10 puncte**)

a fost citata in lucrarile:

1. Bucur, D. M., Bunea, F., Ciocan, G. D., Băran, G., & Isbăşoiu, E. C. (2010). Water parameters evolution in a hydroelectric site. *Environmental Engineering and Management Journal*, *9*(11), 469-472. (**5 puncte**)
2. Geng, Y., Zhang, J., Zhou, Q., Xu, C., & Zhao, Y. Q. (2011). Fuzzy synthetic evaluation of Weihe water quality, *Environmental Engineering and Management Journal*, 10 (10), 1477-1484 (**5 puncte**)

2.9.15. LUCRAREA:

Grigoras, G., Cartina, G., Bobric, E. C., & Rotaru, F. (2010, May). Evaluation of the performances of efficient transformers in distribution networks by fuzzy techniques. In *Optimization of Electrical and Electronic Equipment (OPTIM), 2010 12th International Conference on* (pp. 1281-1284). IEEE. (**7 puncte**)

a fost citata in lucrarile:

1. Cardenas, J. A., Gemoets, L., Rosas, J. H. A., & Sarfi, R. (2014). A literature survey on smart grid distribution: an analytical approach. *Journal of Cleaner Production*, *65*, 202-216. (**5 puncte**)
2. Andruşcă, M., Adam, M., Baraboi, A., Dragomir, A., & Munteanu, A. (2014, October). Using fuzzy logic for diagnosis of technical condition of power circuit breakers. In *Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on* (pp. 268-273). IEEE. (**2 puncte**)

2.9.16. LUCRAREA:

Grigoras, G., Cartina, G., & Bobric, E. C. (2010, April). An improved fuzzy method for energy losses evaluation in distribution networks. In *Melecon 2010-2010 15th IEEE Mediterranean Electrotechnical Conference* (pp. 131-135). IEEE. **(10 puncte)**

a fost citata in lucrarile:

1. Sharma, D. D., & Singh, S. N. (2015). Aberration detection in electricity consumption using

clustering technique. *International Journal of Energy Sector Management*, *9*(4), 451-470. (**3 puncte**)

2. Wang, Y., Li, L., & Yang, Q. (2015, August). Application of clustering technique to electricity customer classification for load forecasting. In *Information and Automation, 2015 IEEE International Conference on* (pp. 1425-1430). IEEE. (**1 punct**)
3. Sanchez, V. A., Lima, D. A., Ochoa, L. F., & Oliveira, M. E. (2015, June). Statistical Top-Down approach for energy loss estimation in distribution systems. In *PowerTech, 2015 IEEE Eindhoven* (pp. 1-6). IEEE. (**1 punct**)
4. Morales, D. X., Toledo, M. A., Vintimilla, J. H., & Medina, R. D. (2016, October). Smart multivariate techniques applied in the budget assignment for loss reduction in ecuador. In PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2016 IEEE (pp. 1-6). IEEE. (**2 puncte**)
5. Lezhniuk Peter Demyanovich, Rubanenko, Elena (2016) Valuation of Power Losses In Electrical Networks Of Agro-Industrial Complex by Criterion Method With Use Neuro-Fuzzy Modelling, New solutions in modern technology, vol 18, pp. 60-65. (**3 puncte**)

2.9.17. LUCRAREA:

Grigoras, G., Cartina, G., Bobric, E. C., & Barbulescu, C. (2009, June). Missing data treatment of the load profiles in distribution networks. In*PowerTech, 2009 IEEE Bucharest* (pp. 1-5). IEEE. (**11 puncte**)

a fost citata in lucrarile:

1. Porumb, R., & Seritan, G. (2015). Load Profiles Definition for the Electrical Distribution Operator. *Acta Electrotehnica*, *56*(3). (**3 puncte**)
2. Radu Porumb, Petru Postolache, George Seriţan, Ramona Vatu, Oana Ceaki (2013). Load Profiles analysis for Electricity Market*, Computational Methods in Social Sciences*, 1(2), 30-38.(**3 puncte**)
3. Seriţan, G., Porumb, R., Cepişcă, C., & Grigorescu, S. (2016). Integration of Dispersed Power Generation. In Electricity Distribution (pp. 27-61). Springer Berlin Heidelberg. (**5 puncte**)

2.9.18. LUCRAREA:

Scarlatache, F., & Grigoraş, G. (2014, May). Optimal coordination of wind and hydro power plants in power systems. In *2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* (pp. 689-694). IEEE. (**9 puncte**)

a fost citata in lucrarile:

1. Odero, N. A., & Okinda, V. O. (2015). A review of techniques in optimal sizing of hybrid renewable energy systems. *International Journal of Research in Engineering and Technology*, 4(11), 153-163. (**3 puncte**)
2. Okinda, V. O., & Odero, N. A. (2016). Modeling, Simulation and Optimal Sizing of a Hybrid Wind, Solar PV Power System in Northern Kenya. International Journal of Renewable Energy Research (IJRER), 6(4), 1199-1211. (**5 puncte**)
3. Javaid, M. S., Saeed, N., Al-Awami, A. T., & Khalid, Z. (2016, December). Stochastic versus Robust Optimization of wind-hydro power plant's operational strategy. In Multi-Topic Conference (INMIC), 2016 19th International (pp. 1-5). IEEE. (**1 punct**)

2.9.19. LUCRAREA:

Grigoras, G., & Scarlatache, F. (2013, May). Energy losses estimation in electrical distribution networks with a decision trees-based algorithm. In *2013 8TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE)* (pp. 1-4). IEEE. (**9 puncte**)

a fost citata in lucrarile:

1. Fu, X., Chen, H., Cai, R., & Xuan, P. (2016). Improved LSF method for loss estimation and its application in DG allocation. *IET Generation, Transmission & Distribution*. (**5 puncte**)
2. Sanchez, V. A., Lima, D. A., Ochoa, L. F., & Oliveira, M. E. (2015, June). Statistical Top-Down approach for energy loss estimation in distribution systems. In *PowerTech, 2015 IEEE Eindhoven* (pp. 1-6). IEEE. (**1 punct**)
3. Identification of Energy Saving Key Links in Distribution Network and Decision - making Scheme for Loss Reduction Power, *Capacitor&Reactive Power Compensation*, vol. 37, no 6, pp. 40 – 45. (**3 puncte**)

2.9.20. LUCRAREA:

Cârţină G, Grigoraş G, Bobric EC *Tehnici de clustering în modelarea fuzzy. Aplicații în energetică,* Casa de editura VENUS, 2005 (**8 puncte**)

a fost citata in lucrarile:

1. G. Chicco, *(2012)*, Overview and performance assessment of the clustering methods for electrical load pattern grouping, Energy, 42(1), 68-80. (**5 puncte**)
2. G. Chicco (2010) Clustering Methods For Electrical Load Pattern Classification, Scientific Bulletin of the Electrical Engineering Faculty, 10(3). (**3 puncte**)

2.9.21. LUCRAREA:

Grigoras, G., & Istrate, M. (2011). An efficient clustering method in evaluation of the electric energy consumption from water hydrophore stations.*International Review on Modelling and Simulations*, *4*(2). (**3 puncte**)

a fost citata in lucrarile:

1. Yan, J., Qi, M., Fang, L., Wang, Y., & Yu, J. (2013). Using Multi-Vector DBSCAN Algorithm to Cluster the Distribution of Urban Water Point.*International Review on Computers and Software (IRECOS)*, *8*(1), 170-173. (**3 puncte**)

2.9.22. LUCRAREA:

Scarlatache, F., & Grigoras, G. (2014, October). Influence of wind power plants on power systems operation. In *Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on* (pp. 1010-1014). IEEE. (**1 punct**)

a fost citata in lucrarile:

1. Ali, S. A., Nawaz, M. F., Bilal, M., Ahmad, F., & Hayat, U. Y. (2015, June). Modeling of wind power plant using MATLAB. In *Power Generation System and Renewable Energy Technologies (PGSRET), 2015* (pp. 1-5). IEEE. (**1 punct**)

2.9.23. LUCRAREA:

Grigoras, G., Barbulescu, C., Cartina, G., & Comanescu, D. (2012). Human Errors Monitoring in Electrical Transmission Networks, *Journal of Energy and Power Engineering*, 6(3), 425-428. (**3 puncte**)

a fost citata in lucrarile:

1. Wójcicki, T. (2015), Synergy Model of Artificial Intelligence and Augmented Reality in the Processes of Exploitation of Energy Systems. *Journal of Energy and Power Engineering*, 10, 425-428. (**3 puncte**)

2.9.24. LUCRAREA:

Comanescu, D., Grigoras, G., Cartina, G., & Rotaru, F. (2010, May). Determination of typical load profiles in hydro-power plant by clustering techniques. In *Optimization of Electrical and Electronic Equipment (OPTIM), 2010 12th International Conference on* (pp. 1294-1297). IEEE. (**2 puncte**)

a fost citata in lucrarile:

1. Surai, J., & Surapatana, V. (2014, March). Load factor improvement in industrial sector using load duration curves. In *Electrical Engineering Congress (iEECON), 2014 International* (pp. 1-4). IEEE. (**2 puncte**)

2.9.25. LUCRAREA:

Kriukov, A., Grigoras, G., Gavrilas, M., Scarlatache, F., & Neagu, B. *(2014) Use of fuzzy techniques in reliability assessment of electric distribution systems*. in Proceedings of IEEE 16th international conference on harmonics and quality of power (ICHQP) (pp. 29–33) (**8 puncte**)

a fost citata in lucrarea:

1. Eduardo Verri Liberadoa, Fernando Pinhabel Marafãob, Marcelo Godoy Simõesc, Wesley Angelino de Souzaa, José Antenor Pomilioa (2015*),* Novel expert system for defining power quality compensators, *Expert Systems with Applications,* 42(7), 3562–3570. (**5 puncte**)
2. Suat Ozdemir, Metin Demirtaş, Serkan Aydin, Energy Distribution System Harmonic Estimation With Fuzzy Estimation Method, International Journal of Scientific Research in Information Systems and Engineering (IJSRISE) Vol. 2, no. 1, April-2016. **(3 puncte)**

2.9.26. LUCRAREA

Cârţină Gh, Hua-Song Y., Grigoraş Gh, *Optimal Operation and Planning of Power Systems,* Casa de Editura VENUS, Iasi, 2003: (**3 puncte**)

a fost citata in lucrarea:

Bobric, E. C., Irimia, D., Rata, G., & Rata, M. Planning and Management of the Power System Using Dsatools'software, *ANNALS of the ORADEA UNIVERSITY*, Fascicle of Management and Technological Engineering, Volume IX (XIX), 2010, NR1. (**3 puncte**)

2.9.27. LUCRAREA

Fl. Scarlatache, Gh. Grigoras (2012) An Approach Regarding the Placement Of Distributed Generation Sources In Electric Distribution Systems Using Hurwitz Criterion, *Buletinul Institului Politehnic din Iasi*, Seria Electrotehnica, Energetica, Tomul LVIII(LXII), 4, 109 – 117 (**3 puncte**)

a fost citata în lucrarea:

Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (**3 puncte**)

2.9.28. LUCRAREA

Grigoras G, Alexandrescu V, Cartina G. (2013), Estimation of Power/Energy Losses in Electric Distribution Systems based on an Efficient Method, *TELKOMNIKA Indonesian Journal of Electrical Engineering*, 11(9), 4854-4860 (**6 puncte**)

a fost citata in lucrarile:

1. Hui Gao, Yingjun Wu The Research Status and Development Trend of Electric Vehicle Power Supply Technology*, TELKOMNIKA Indonesian Journal of Electrical Engineering*, 12(11), 7690-7696. (**3 puncte**)
2. Mlakic, D., Nikolovski, S. N., & Knezevic, G. (2016). An Adaptive Neuro-Fuzzy Inference System in Assessment of Technical Losses in Distribution Networks. International Journal of Electrical and Computer Engineering, 6(3), 1294.

2.9.29. LUCRAREA

Cartina G, Grigoras G, Bobric EC, Comanescu D (2009), Improved fuzzy load models by clustering techniques in optimal planning of distribution networks. In: PowerTech, 2009 IEEE Bucharest, pp 1, 6, June 28 2009–July 2 2009 (**6 puncte**)

a fost citata in lucrarile:

1. Hui Gao, Yingjun Wu Management of the Power Distribution Network Reconstruction Process Using Fuzzy Logic, Mirza Saric**,** Jasna Hivziefendic, Advanced Technologies, Systems, and Applications Volume 3 of the series Lecture Notes in Networks and Systems pp 155-172. (**3**

	puncte) 2. Lezhniuk Peter Demyanovich, Rubanenko, Elena (2016) Valuation of Power Losses In Electrical Networks Of Agro-Industrial Complex by Criterion Method With Use Neuro-Fuzzy Modelling, *New solutions in modern technology*, vol 18, pp. 60-65. (**3 puncte**) 1.9.30 LUCRAREA Grigoraş, G., & Bărbulescu, C. (2013). Human errors monitoring in electrical transmission networks based on a partitioning algorithm. *International Journal of Electrical Power & Energy Systems*, *49*, 128-136. (**6 puncte**) a fost citata in lucrarile: 1. Norcross, R. (2016). A Grounded Theory Study of Aircraft Maintenance Technician Decision-Making. Northcentral University. Degree of Doctor of Business Administration, 2016. (**3 puncte**) 2. Mrugalska, B., Nazir, S., Tytyk, E., & Øvergård, K. I. (2016). Human error and response to alarms in process safety. Dyna, 83(197), 81-86. (**3 puncte**) 1.9.31 LUCRAREA Vicol, B., Gavrilas, M., Ivanov, O., Neagu, B., & Grigoras, G. (2014, May). Synchrophasor measurement method for overhead line parameters estimation in MV distribution networks. In Harmonics and Quality of Power (ICHQP), 2014 IEEE 16th International Conference on (pp. 862-865). IEEE. (**3 puncte**) a fost citata in lucrarea: Zelenskii, E. G., Kononov, Y. G., & Levchenko, I. I. (2016). Identification of the parameters of distribution networks by synchronized current and voltage measurements. Russian Electrical Engineering, 87(7), 363-368. (**3 puncte)**	
	2.11. Finalizare teză de doctorat **Realizări:**	**0**
	2.12. Elaborare standarde **Realizări:**	**0**
Total punctaj Criteriu 2		**1283.37**
3. Recunoaşterea naţională şi internaţională (minimum: • 15 puncte prof.; • 10 puncte conf.; • 5 puncte ș. l.)	**3.1**. Profesor invitat pentru prelegeri la univ. de prestigiu **Realizări:**	**0**
	3.2. Membru în academii (Academia Română, Academia de Ştiinţe Tehnice, Academia de Ştiinţe Agricole şi Silvice, Academia Oamenilor de Ştiinţă etc.) **Realizări:**	**0**
	3.3. Doctor Honoris Causa **Realizări:**	**0**
	3.4. Membru în societăţi ştiinţifice şi profesionale **Realizări:** 3.4.1. AGIR (Romania) 3.4.2. SETIS (Romania) 3.4.3. International Association of Engineers (IAENG)	**20**
	3.5. Membru în comisii de doctorat **Realizări:**	**0**
	3.6. Membru în colective de redacţie ale revistelor **Realizări:** **Reviste incluse ISI** **Editor invitat: Energies** (http://www.mdpi.com/journal/energies/special_issues/NEFES2016) **Reviste incluse în BDI** 1. Journal of Network and Communication Technologies (http://www.ccsenet.org/journal/index.php/nct/about/editorialTeam) 2. Energy & Power, http://inventi.in/journal/editorial_board/impact/18/energy-power 3. Modeling & Simulation, http://inventi.in/journal/editorial_board/impact/96/modeling-simulation 4. Fuzzy Systems, http://inventi.in/journal/editorial_board/impact/89/fuzzy-systems 5. Artificial Intelligence, http://inventi.in/journal/editorial_board/impact/73/artificial-intelligence 6. Control Science & Engineering, http://inventi.in/journal/editorial_board/impact/83/control-science-engineering 7. Artificial Intelligence, http://inventi.in/journal/editorial_board/impact/73/artificial-intelligence 8. Engineering Mathematics, http://inventi.in/journal/editorial_board/impact/88/engineering-mathematics 9. American Journal of Electrical Power and Energy Systems, http://www.sciencepublishinggroup.com/journal/editorialboard.aspx?journalid=165 10. SCIREA Journal of Energy, http://www.scirea.org/journal/Energy	**120**
	3.7. Membru în comitete ştiinţifice naţionale/ internaţionale/ de program (la congrese, conferinţe etc.) **Realizări:** 3.7.1.Future Technologies Conference, San Francisco, SUA, 2016 (http://saiconference.com/Conferences/FTC2016) – Membru TPC; 3.7.2. International Conference on New Energy and Future Energy System, Beinjing, China, 2016 (http://www.intergridconf.org/2016/Committee.html) - Membru TPC; 3.7.3. International Conference on Wireless Communication, Network Security and Signal Processing, Chiang Mai, Thailand, 2016 (http://www.wcnssp2016.org/com.htm) - Membru TPC; 3.7.4. SAI Intelligent Systems Conference, Londra, UK, 2016 (http://saiconference.com/Conferences/IntelliSys2016) - Membru TPC; 3.7.5. Science and Information Conference, Londra, UK, 2016 (http://saiconference.com/Conferences/Computing2016) - Membru TPC; 3.7.6. International Conference on Electronics, Computers and Artificial Intelligence, Ploiesti,	**60**

	Romania, 2016 (http://www.ecai.ro) - Membru PC.	
	3.8. Membru în echipe de expertizare / evaluare a cercetării ştiinţifice (proiecte CNCS, PNCDI II, FP7, Phare; centre de cercetare etc.) **Realizări:**	**0**
	3.9. Membru în echipe de expertizare (evaluare) a procesului educaţional (ARACIS, EUA etc.) **Realizări:**	**0**
	3.10. Membru în consilii naţionale de specialitate **Realizări:**	**0**
	3.11. Organizator de manifestări ştiinţifice naţionale / internaţionale / sesiuni invitate **Realizări:**	**0**
	3.12. Referent ştiinţific / expert naţional şi internaţional (pentru reviste, congrese etc.) **Realizări:** **Jurnale Internationale (580 puncte)** **a. Jurnale indexate ISI (500 puncte)** 3.12.1. Energy (**35 recenzii - 350 puncte**) 1. EGY-D-15-04858. Simulation of the impacts on carbon dioxide emissions from replacement of a conventional Brazilian taxi fleet by electric vehicles 2. EGY-D-15-02011R1. Stochastic Energy Management of Renewable Micro-Grids in the Correlated Environment Using Unscented Transformation 3. EGY-D-15-00159R2. Using the Ensemble Kalman Filter for Electricity Load Forecasting and Analysis 4. EGY-D-15-05181. Two methods for decreasing the flexibility gap in national energy systems 5. EGY-D-15-05178. Reaching the CO2 Cut Targets by 2050 for a Conventional Power Utility - a Sustainability Assessment 6. EGY-D-14-03377R1. Load Forecasting under Changing Climatic Conditions for the City of Sydney, Australia 7. EGY-D-15-02011R2. Stochastic Energy Management of Renewable Micro-Grids in the Correlated Environment Using Unscented Transformation 8. EGY-D-15-03645R1. Optimal Distribution Transformer Sizing in a Harmonic Involved Load Environment via Dynamic Programming Technique 9. EGY-D-15-04858R1. Simulation of the impacts on carbon dioxide emissions from replacement of a conventional Brazilian taxi fleet by electric vehicles 10. EGY-D-15-04080R1Prediction of residential building energy consumption: A neural network approach 11. EGY-D-15-04829. Rewarding Cooperative Virtual Power Plant Formation Using Scoring Rules 12. EGY-D-16-01190. Estimating Transportation Energy Demand in Turkey Using the Artificial Bee Colony Algorithm 13. EGY-D-16-01745. Continuous Fractional-order Grey Model and Electricity Prediction Research Based on the Observation Error Feedback 14. EGY-D-15-04858R2. Simulation of the impacts on carbon dioxide emissions from replacement of a conventional Brazilian taxi fleet by electric vehicles 15. EGY-D-15-05181R1. Two methods for decreasing the flexibility gap in national energy systems 16. EGY-D-16-02461. Evaluation of lower heating value and elemental composition of bamboo using near infrared spectroscopy 17. EGY-D-15-02714R1. Optimization of a Small-Scale LNG Supply Chain 18. EGY-D-16-02039. A hybrid forecasting model based on date-framework strategy and improved feature selection technology for short-term load forecasting 19. EGY-D-15-04080R2. Prediction of residential building energy consumption: A neural network approach 20. EGY-D-15-03991R1. Modelling non-stationary time series using a peaks over threshold distribution with time varying covariates and threshold: An application to peak electricity demand 21. EGY-D-16-01745R1. Continuous Fractional-order Grey Model and Electricity Prediction Research Based on the Observation Error Feedback 22. EGY-D-15-03645R2. Optimal Distribution Transformer Sizing in a Harmonic Involved Load Environment via Dynamic Programming Technique 23. EGY-D-16-01835R1. A novel approach to energy harvesting from vehicle suspension system: Half-Vehicle Model 24. EGY-D-15-04829R1. Rewarding Cooperative Virtual Power Plant Formation Using Scoring Rules 25. EGY-D-16-04123. A novel security constraint optimal power flow based on congestion management applying power transfer distribution factors 26. EGY-D-16-04234. Breeder Hybrid Algorithm Approach for Natural Gas Demand Forecasting Model 27. EGY-D-16-02039R1. A hybrid forecasting model based on date-framework strategy and improved feature selection technology for short-term load forecasting 28. EGY-D-16-01190R1. Estimating Transportation Energy Demand in Turkey Using the Artificial Bee Colony Algorithm 29. EGY-D-15-03991R2. Modelling non-stationary time series using a peaks over threshold distribution with time varying covariates and threshold: An application to peak electricity demand 30. EGY-D-16-02461R1. Evaluation of lower heating value and elemental composition of bamboo using near infrared spectroscopy 31. EGY-D-15-02944R1. Scenario-based approach for design and comparatively analysis of conventional and renewable energy systems 32. EGY-D-16-04944. The effect of theft reduction methods on the reduction of unnecessary energy use in electricity distribution system 33. EGY-D-16-04949. Energy harvesting with the piezoelectric material integrated shoe 34. EGY-D-16-04234R1. Breeder Hybrid Algorithm Approach for Natural Gas Demand Forecasting Model	**757**

35. EGY-D-16-04723. Optimal short-term generation scheduling of hydrothermal systems by implementation of real-coded genetic algorithm based on improved Mühlenbein mutation

3.12.2. Energies (**10 recenzii – 100 puncte**)

1. energies-136730. Study on Decoupling Between Economic Growth and Energy Consumption of Beijing
2. energies-144342. Design and Optical Performance of Compound Parabolic Solar Concentrators with Evacuated Tube as Receivers
3. energies-144339. Design of Electromagnetic Environment Monitor with Large Range and Three-dimensional High Accuracy
4. energies-147177. Fuel Gas Production from Biomass and Polymeric Wastes with Perovskite La1-xCexMO3 (M= Ni, Co; x=0-0.4) Catalysts
5. energies-159016. Design and Simulation of Elliptical Cavity Tube Receivers in the Parabolic Trough Solar Collector: Optical Analysis
6. energies-121778. Energy optimization allocation strategy in multi-energy storage system for rail traffic
7. energies-132127. Energy utilization analysis of flexible group in battery energy storage system for the life cycle
8. energies-121778R1. Energy optimization allocation strategy in multi-energy storage system for rail traffic
9. energies-132127R1. Energy utilization analysis of flexible group in battery energy storage system for the life cycle
10. energies-121778R2. Energy optimization allocation strategy in multi-energy storage system for rail traffic

3.12.3. IEEE Transactions on Smart Grid (**1 recenzie - 10 puncte**)

1. TSG-01175-2015.R A Fast Harmonic Phasor Measurement Method for Smart Grid Applications

3.12.4. Journal on Computational Science (**1 recenzie - 10 puncte**)

1. JOCS – D-16- 00483. Grey Programming into Uncertain Group Decision – Making in Manufacturing Supply Chains

3.12.5. The International Journal for Computation and Mathematics in Electrical and Electronic Engineering COMPEL (**3 recenzii - 30 puncte**)

1. COMPEL-12-2015-0452. Using ANFIS to Model Dynamic Behaviour of PEMFC
2. COMPEL-08-2016-0365. A Novel Approach to Solve Transient Stability-Constrained Optimal Power Flow Problem
3. COMPEL-11-2016-0507. Monte-Carlo Increased-Radius Floating Random Walk Solution for Potential Problems

a. Jurnale indexate BDI (80 puncte)

3.12.6. American Journal of Electrical Power and Energy Systems –Jurnal BDI (**1 recenzie - 5 puncte**)

1. EPES_1651055_20161021. Technique of Optimal Placement of SVC for Voltage Collapse Mitigation

3.12.7. International Journal of Advanced Research in Artificial Intelligence – Jurnal BDI (**4 recenzii – 20 puncte**)

1. An improvement to ANNs method approach for solving general nonlinear system of polynomial equations
2. Developing Instructional Material for Sepak Takraw Playing Technique Course Completed with Smart Audiovisual
3. Software Defect Prediction Based On Fuzzy Artmap Neural Network Technique
4. An Intelligent Book Recommender System for Mobile Platform

3.12.8. WSEAS Transactions on Power Systems – Jurnal BDI (**11 recenzii - 55 puncte**)

1. 5816-464 Voltage Stability Assessment for Load-shedding Distribution
2. 5816-470 Weighting Factor Scenarios for Assessing the Financial Balance of Pollutant Productions an Fuel Consumptions on the Power System Operation
3. 5816-454 Optimal Coordination of Directional Over-currant Relay in Distribution System with Multi TCSC
4. 5816-456 Evaluating the Reliability worth Indices of Electrical Medium Voltage Network: Case Study
5. 5816-437 Particle Swarm Optimization Based Tuning of PI Controller for Harmonic Compensation o Non-linear Dynamic Loads
6. 5816-441 An Exact Method to Compute Time Delay Margin for Stability of Time-Delayed Generato Excitation Control System
7. 5816-474 Study of Dissolved Gas Analysis for Pre-Determination of Faults in Transformers
8. 5816-452 SOC Estimation for Li-ion Battery Based on UKF Algorithm Optimized by Artificial Neura Network
9. 5816-440 Model Predictive Control of Nonlinear Interconnected Hydro-Thermal System Load Frequenc Control Based Bat Inspired Algorithm

10. 5816-459 An Optimal PV System Fed Water Pump Three Phase Induction Motor without Storage Systems Based on TLBO Technique and ANN
11. 5816-448 STATCOM or SSSC for Power System Stabilization?

Conferinte Internationale (177 puncte)

a. Conferinte Indexate ISI (75 puncte)

3.12.9. EPE 2016, Iasi, Romania (**15 recenzii – 75 puncte**)

1. The influence of the tariff charged by electricity suppliers on the optimal running of a trigeneration plant
2. On a Demand Response Pilot Demonstration in the Technical University of Cluj-Napoca
3. The Study of Dynamic Processes In Power Grids In The Presence Of Renewable Sources
4. Impact of photovoltaic power plants on power system losses
5. Issue of Voltage Distribution Networks with Distributed Generation
6. The problems of dissolved in oil gases analysis results' interpretation in information analytical systems
7. Some Considerations about Overvoltages during and after the Disconnetion of a PV Park
8. The Impact of Harmonic Current Flow on Additional Power Losses in Low Voltage Distribution Networks
9. Reactive Power Compensation in Distribution Networks using Bat Algorithm
10. A solution to obtain precise fault location using a two-end data algorithm
11. Assessment on reliability of wind turbine protection system during grid disturbances
12. A hybrid GA-PSO Algorithm for Static VAR Compensation
13. The Study of Possibility to Use the Current Transformer for Power Conversion
14. Limits of Mathematical Model used in Wind Turbine Descriptions
15. Bayesian Networks Utilization for Reliability Evaluation of Power Systems

b. Conferinte Indexate BDI (102 puncte)

3.12.10. 11th International Conference on Dynamical Systems and Control (CONTROL '16), Bern, Elvetia, (**5 recenzii – 15 puncte**)

1. 74106-106. A Predictive Current Control Strategy for a Naturally-Commutated Converter Using a Finite-State Machine Model
2. 74106-151. Active Power Filter for Variable-Speed Wind Turbine PMSG Interfaced to Grid and Non-linear Load via three Phase Matrix Converter
3. 74106-124. Optimization of Distribution Network Based on Index System Sensitivity Analysis of Multi-dimensiona
4. 74106-127. Risk Assessment Model and Method of Urban Distribution Network Considering Real-time and Potential Factors
5. 74106-130. Establishment and Optimization of Distribution Network Operation Mode Considering Operation and Grid Risk

3.12.11. 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI '16), Ploiesti, Romania, (**4 recenzii – 12 puncte**)

1. Predictive Methods to Increase Energy Efficieny in Processes of Wastewater Treatment
2. Prosumers' Renewable Small-Size Generation Forecasting Analyses With ARIMA Models
3. Energy Efficiency Aspects of Urban Waste Recovery
4. Internal Model Control for Wastewater pH Neutralization Process

3.12.12. Future Technologies Conference (FTC 2016), San Francisco, USA (**4 recenzii – 12 puncte**)

1. Generalize Julia Algorithm in Construction Management Optimization
2. Cognitive Artificial Intelligence Method for Measuring Transformer Performance
3. Imparting Data Knowledge in Discrete Data Volumes using Crowded Agent Aproach for Multi-Persepective and Visualized big Data
4. A Goal Directed Proof Format in Firts-Order Logic. An Alternative Tool for Automatic Reasoning

3.12.13. SAI Intelligent Systems Conference (IntelliSys 2016), Londra, UK (**7 recenzii – 21 puncte**)

1. A Network Intrusion Detection Framework based on Bayesian Network using Wrapper Approach
2. Simulated Annealing and Cloud Computing Applied to Forest Planning
3. Simulated Annealing Applied to Target-forest Patching
4. Experimental Study of Surfaces for the Movement of Kilobots in Swarm Networks
5. Hybrid Intelligence Nano-enriched and Management System for Efficient Water-Quality Monitoring
6. Proactive Business Intelligence to Give Best Customer Experience to Valued Social Networks in Telecoms
7. Mathematical Regression Modeling for Smart Environmental Wheather Forecasting

3.12.14. SAI Computing Conference, London, UK, 2016 (**1 recenzie - 3 puncte**)

1. A Smart Display Component Model For Embedded Systems Modeling and Simulation

3.12.15. International Conference on New Energy and Future Energy System (NEFES 2016), Beijing, China (**13 recenzii - 39 puncte**)

	1. FES1009. The Research on Transmission Performance of PTP 2. FES1008. Research on PTP Transmission Performance in Different Link Lengths 3. FES1014. Power Flow Calculation for Weakly Meshed Distribution Network with Distributed Generation Considering Static Load Characteristics 4. FES1022. Application and Review of Distribution Network Transformer Energy Conservation and Reconstruction Technologies and Methods 5. FES1029. Study on energy saving technology of electrostatic precipitator power supply device 6. FES1052. Study on The Change Rule of The Dissolved Water Content in Jet Fuels 7. FES1057. The simulation and research on over-voltage suppression for high voltage transmission line 8. FES1062. Analysis on Investment Risk of Energy-Saving Reconstruction for ESCO based on System Dynamics 9. FES1105. Economic-energy-industrial-environmental optimization (EEIEO) model for identification of optimal strategies - A case study of Beijing-Tianjin-Hebei region, China 10. FES1014R1. Power Flow Calculation for Weakly Meshed Distribution Network with Distributed Generation Considering Static Load Characteristics 11. FES1029R1. Study on energy saving technology of electrostatic precipitator power supply device 12. FES1062R1. Analysis on Investment Risk of Energy-Saving Reconstruction for ESCO based on System Dynamics 13. FES1105R1. Economic-energy-industrial-environmental optimization (EEIEO) model for identification of optimal strategies - A case study of Beijing-Tianjin-Hebei region, China	
	3.13. Membru în comisii de concurs pentru posturi didactice universitare **Realizări:**	**0**
	3.14. Membru în jurii, comisii, concursuri profesionale **Realizări:**	**0**
	3.15. Cercetător invitat pentru activităţi de cercetare în universităţi/firme de prestigiu	**0**
	3.16. Cadru didactic invitat în programe ERASMUS (prelegeri)	**0**
	3.17. Cadru didactic care gestioneaza acorduri bilaterale ERASMUS	**0**
	3.18. Premii	**0**
Total punctaj Criteriu 3		**957**
4. Activitatea cu studenţii*) (minimum: • 10 puncte prof.; • 7 puncte conf.; • 5 puncte ș.l.)	**4.1.** Conducere cercuri ştiinţifice studenţeşti **Realizări:** 4.1.1. **3 lucrari**: Gabriel Casian Gherman, anul IV, ISE Alin Maruseac, anul IV, ISE Emilian Rapanu, anul IV, ISE	**9**
	4.2. Pregătire pentru concursuri profesionale (pentru fazele naţională şi internaţională) **Realizări:**	**0**
	4.3. Conducere lucrări de absolvire[2)], licenţă (diplomă), disertaţie, doctorat (inclusiv cotutelă, membri în echipa de îndrumare) **Realizări:** 4.3.1. 1 *lucrare de disertatie* (**5 puncte**) Razvan Anisii, MSE 4.3.2. *7 lucrari de licenta* **(21 puncte)** Gabriel Casian Gherman, anul IV, ISE Alin Maruseac, anul IV, ISE Emilian Rapanu, anul IV, ISE Ionut Dragomir, anul IV, ME Olimpia Agape, anul IV, IE Andreea Zamurca, anul IV, IE Vlad Olaru, anul IV, IE	**26**
	4.4. Îndrumare ani de studii **Realizări:** 4.4.1. Anul IV, 6405 – Mangementul energiei	**5**
Total punctaj Criteriu 4		**40**
5. Activitatea în comunitatea academică (minimum: • 15 puncte prof.; • 10 puncte conf.); • 5 puncte ș.l.;	**5.1.** Participare la simpozioane, mese rotunde etc. **Realizări:**	**0**
	5.2. Activitate în comisii **Realizări:** 5.2.1. Membru al consiliului facultăţii (5 puncte) 5.2.2. Responsabil comisia de orar pe facultate (5 puncte) 5.2.3 Membru in comisia cercuri stiintifice studentesti (Energetica – Comisia 1) (3 puncte) 5.2.4. Promovare facultate (4 licee: Liceul „Ion Neculce" Tg. Frumos, Colegiul Tehnic „Petru Poni" Roman, Liceul Tehnologic „Miron Costin", Liceul Teologic Franciscan Roman) (20 puncte)	**33**
	5.3. Coordonare programe de studii de licență/ masterat/ postuniversitare de formare continuă **Realizări:** **Program de studii de licenta ISE**	**5**
Total punctaj Criteriu 5		**38**
Total punctaj Criterii 1-5		**2458**

6. Evaluarea de către Directorul de Departament (0-50 puncte)	**Justificări:** • .....; • .....; • .....; • .....; •	**50**
Total general		**2508**

*) conform Fişei postului

Data: _____

UNIVERSITATEA TEHNICĂ „GHEORGHE ASACHI” DIN IAŞI

FACULTATEA DE Inginerie Electrică, Energetică şi Informatică Aplicată

DEPARTAMENTUL de Energetică

FIȘA DE AUTOEVALUARE
Și DE EVALUARE DE CĂTRE DIRECTORUL DE DEPARTAMENT-2017

(pentru activitatea în departamentul de încadrare conform contractului de muncă)

Numele şi prenumele cadrului didactic evaluat	**Grigoras Gheorghe**
Funcţia didactică	**Conf. dr. ing.**

Criteriul de evaluare	Indicatori de performanţă (cu explicitarea modului de calcul a punctajului pentru fiecare realizare, conf. nexa 1)	Punctaj
1. Activitate didactică* (minimum: • 30 puncte prof.; • 15 puncte conf.; • 10 puncte ș.l.; • 5 puncte as.)	**1.1.** Predare discipline/ cursuri noi în planul de învăţământ, pe direcţii neelaborate anterior	**-**
	1.2. Elaborare manuale universitare (inclusiv în sistem e-learning) **Realizări:** 1.2.1. Cursuri (**17,5 puncte**) **Gh. Grigoraş,** Tehnici de optimizare în energetică, format electronic, 175 pagini, 2017 (**17.5 puncte**) 1.2.2. Indrumar laborator (**13,47 puncte**) **Gh. Grigoras**, Fl. Scarlatache, Metode numerice. Aplicatii practice, Editura PIM, 2014, **173 pag.**, ISBN: 978-606-13-2143-8. (**6.05 puncte**) **Gh. Grigoras**, Optimizari in sistemele energetice, Editura PIM, 2017, **106 pag.**, ISBN: 978-606-13-4053-8. (**7,42 puncte**)	**30,97**
	1.3. Elaborare suporturi de cursuri, seminarii, laboratoare, proiecte **Realizări:** 1.3.1. Gh. Grigoraş, Strategii și decizii optimale în energetică, Suport de curs (prezentari PowerPoint), 265 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html (**7,95 puncte**) 1.3.2. Gh. Grigoraş, Modelarea și optimizarea proceselor energetice industriale, Suport de curs (prezentari PowerPoint), 201 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html. (**6,03 puncte**) 1.3.3. Gh. Grigoraş, Sisteme de conducere, supraveghere și achiziții de date, Suport de curs (prezentari PowerPoint), 198 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html. (**5,94 puncte**) 1.3.4. Gh. Grigoraş, Tehnici modene de conducere, Suport de curs (prezentari PowerPoint), 162 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html (**4,86 puncte**) 1.3.5. Gh. Grigoraş, Modelarea și optimizarea proceselor energetice industriale, Suport de laborator (referate de laborator), 97 pag. (http://www.gheorghe-grigoras.ieeia.tuiasi.ro/aplicatii_sdoe.html. (**2,91 puncte**) 1.3.6. Gh. Grigoraş, Modelarea și optimizarea proceselor energetice industriale, Suport de laborator (referate de laborator), 39 pag. (http://www.gheorghe-grigoras.ieeia.tuiasi.ro/aplicatii_mopei.html. (**1,17 puncte**)	**28,86**
	1.4. Elaborare manuale şi alte materiale pentru învăţământul preuniversitar **Realizări:**	**0**
	1.5. Modernizare tehnologie didactică **Realizări:** **Dotare cu aparatură, echipamente, materiale, material curricular auxiliar, în scop didactic** **Laptop + videoproiector pentru prezentari curs – (3000 lei) – (12,85 puncte)** **Sursa: Contract de cercetare** *Servicii de consultanță de specialitate în proiectul EON Moldova Distribuție de reducere a pierderilor tehnice în rețelele de distribuție*, Contract nr. 1398P / 08.10.2014, beneficiar: E.ON Moldova Distribuţie S.A. - Membru **Laborator Tehnici moderne de conducere – master MSE. Programe soft (20 puncte)** Estimarea fiabilității sistemelor de distribuție folosind modele fuzzy (**Gh. Grigoras)** Evaluarea variațiilor lente de tensiune din sistemele de distribuție folosind te hnici fuzzy (**Gh. Grigoras)** Considerarea incertitudinii in evaluarea economica a variantelor de dezvoltare a unei retele	**47,85**

	electrice (**Gh. Grigoras)** Evaluarea pierderilor de energie in transformatoarele electrice de distributie folosind tehnici fuzzy (**Gh. Grigoras)** **Laborator Strategii si decizii optimale in energetica – licenta MSE. Programe soft (15 puncte)** Gheorghe Grigoras, Aplatizarea curbelor de sarcină folosind programarea liniară in Matlab, (**Gh. Grigoras)** Criteriul abaterii medii pătratice în aprecierea variaţiilor lente de tensiune din rețelele electrice, (**Gh. Grigoras)** Strategii privind economia de energie în rețelele electrice (**Gh. Grigoras)**	
Total punctaj Criteriu 1		**107.68**
2. Cercetarea ştiinţifică (minimum: • 150 puncte prof.; • 100 puncte conf.; • 60 puncte ș.l.; • 30 puncte asist.)	**2.1.** Elaborare cărţi/ monografii/ tratate **Realizări:** 2.1.1. **Gh. Grigoraş**, Fl. Scarlatache, B.C. Neagu, Clustering in Power Systems. Applications, Ed. Lambert Academic Publishing, Germany, 2016, ISBN: 978-3-8473-2793-6 (**210 pag.**) – (**105 puncte**) 2.1.2. **Gh. Grigoraş**, Electrical Energy Consumption Forecasting to Improve Energy Efficiency of Water Distribution Systems, Capitol in cartea Energy Harvesting and Energy Efficiency. Technology, Methods, and Applications, Editori: Nicu Bizon, Naser Mahdavi Tabatabaei, Frede Blaabjerg, Erol Kurt, Springer International Publishing, Switzerland, pp. 599 – 628, 2017, ISBN: 978-3-319-49874-4. (**30 pag**.) – (**15 puncte**) 2.1.3. Fl. Scarlatache, **Gh. Grigoraş**, Impact of the Distributed Generation on Optimal Operation and Planning of the Electrical Networks, capitol in cartea Distributed Generation. Systems, Performance and Emerging Technologies, Editor Tao, Lin Nova Science Publishers, USA, pp. 127 – 160, 2017, ISBN: 978 -1 – 53611-074-6. (**34 pag.**) – (**8.5 puncte**) 2.1.4. B. C. Neagu, **Gh. Grigoraş**, The Assessment of Power Quality in Electric Distribution Systems from Romania, capitol in cartea Advances in Energy Research, Editor Morena J. Acosta, Nova Science Publishers, USA, pp. 57 – 211, 2017, ISBN: 978-1-53612-699-0. (**55 pag.) – (13.75 puncte)**	**142.25**
	2.2. Articole publicate în reviste de specialitate **Realizări:** **a. Reviste cotate ISI (295,04 puncte)** 2.2.1. **Grigoras Gh.**, Cartina Gh., The fuzzy correlation approach in operation of electrical distribution systems, The International Journal for Computation and Mathematics in Electrical and Electronic Engineering Vol. 32 No. 3, 2013, pp. 1044-1066, (FI=0.371) - (**22,42 puncte**) 2.2.2. **Grigoras Gh.**, Barbulescu C., Human errors monitoring in electrical transmission networks based on a partitioning algorithm, Electrical Power and Energy Systems 49 (2013) 128–136, http://dx.doi.org/10.1016/j.ijepes.2012.12.016. (FI = 3,43) - (**83,6 puncte**) 2.2.3. **Gh. Grigoraş**, Fl. Scarlatache, An assessment of the renewable energy potential using a clustering based data mining method. Case study in Romania, Energy, Volume 81, pp. 416–429, 2015, ISSN: 0360-5442 (FI = 4,52), WOS:000351248200041- (**111,8 puncte**) 2.2.4. **Gh. Grigoraş**, E.-C. Bobric, Clustering Based Approach for Customers' Classification From Electrical Distribution Systems, U.P.B. Sci. Bulletin, Series C, Vol. 77, Nr. 2, pp. 219-226, 2015, ISSN : 2286-3540, (fara FI) WOS:000421799900018, (**15 puncte**) 2.2.5. A. Banerjee, S. Chattopadhyay, **Gh. Grigoraş**, M. Gavrilaș, Minimization of reliability indices and cost of power distribution systems in urban areas using an efficient hybrid meta-heuristic algorithm, Soft Computing, On-line: Octombrie 2017, DOI 10.1007/s00500-017-2846-6, ISSN: 1432-7643, (FI = 2.472), (**32,22 puncte**) 2.2.6. **Gh. Grigoraş**, Electrical Energy Consumption Forecasting to Improve Energy Efficiency of Water Distribution Systems, Lecture Notes in Energy, vol. 37, pp. 599 – 628, 2017, ISSN: 2195-1284 (fara FI) WOS:000412159000022 (**30 puncte**). **b. Reviste cotate BDI (82,5 puncte)** 2.2.7. B. C. Neagu, **Gh. Grigoraş**, The Assessment of Power Quality in Electric Distribution Systems from Romania, Advances in Energy Research, vol. 28, pp. 57 – 211, 2017, ISBN: 978-1-53612-699-0. (**15 puncte**) 2.2.6. M. Gavrilaș, **Gh. Grigoraş**, M. Cazacu, C.O Carp, I. Andrei, Reducing Active Energy Losses in Low Voltage Distribution Grids, Journal of Sustainable Energy, Vol. 8, No. 3, pp. 113 – 120, ISSN: 2067-5534, 2017 (**6 puncte**) 2.2.7. **Gh. Grigoraş**, M. Gavrilaș, Fl. Scarlatache, M. Cazacu, M. Cosarca, Assessing Energy Losses in Unbalanced Low Voltage Electric Distribution Networks, Energetica, Vol. 64, Nr. 2, pp. 53 – 59, 2016, ISSN: 1453-2360 (**6 puncte**) 2.2.8. M. Gavrilas, **Gh. Grigoras**, S. Buliga, C. Strugaru, Influence of Renewable Sources Integration on Technical Energy Losses in High Voltage Distribution Networks, Energetica, Vol. 63, Nr. 4, pp. 139 – 144, ISSN: 1453-2360, 2015. (**7.5 puncte**) 2.2.9. **Gh. Grigoras**, M. Gavrilas, S. Buliga, C. Strugaru, Solutions Regarding the Efficient Use of Transformers in Electric Distribution Networks, Energetica, Vol. 63, Nr. 4, pp. 145 – 149, ISSN: 1453-2360, 2015 (**7.5 puncte**). 2.2.10. B. Neagu, **Gh. Grigoras**, Fl. Scarlatache, Load Management in Distribution Systems with Smart Metering, Energetica, Vol. 63, Nr. 4, pp. 150 – 156, ISSN: 1453-2360, 2015.(**10 puncte**) 2.2.11. **Gh. Grigoras**, B. Neagu, Market Clearing Price Forecasting in Deregulated Electricity Markets Using a Fuzzy Approach, Acta Electrotehnica, Vo. 56, Nr. 3, pp. 113-116, 2015, ISSN: 2344-5637 (**15 puncte**) 2.2.12. B. Neagu, **Gh. Grigoras**, Data Mining Tools in Electricity Distribution Systems, Acta Electrotehnica, Vo. 56, Nr. 3, pp. 209-212, 2015, ISSN: 2344-5637. (**15 puncte**)	**377,54**
	2.3. Conferinţe invitate, lucrări comunicate la manifestări științifice **Realizări:**	**0**
	2.4. Lucrări publicate în volumele conferinţelor **Realizări:**	

	a. Volume indexate ISI (345 puncte) 2.4.1. **Gh. Grigoraş**, Fl. Scarlatache, B.C. Neagu, Analysis of energy saving solutions based on replacement of distribution transformers, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, pp. 66 – 71, 2017, WOS:000426909600009 (**16.66 puncte**) 2.4.2. **Gh. Grigoraş**, Fl. Scarlatache, D. Comanescu, B.C. Neagu, Expert system for optimal power allocation in hydropower dispatchable units, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, pp. 605 – 610, 2017, WOS:000426909600091 (**12,5 puncte**) 2.4.3. **Gh. Grigoras**, B.C. Neagu, Fl. Scarlatache, R. Ciobanu, Identification of pilot nodes for secondary voltage control using K-means clustering algorithm, IEEE 26th International Symposium on Industrial Electronics (ISIE), Edinburgh, United Kingdom, pp. 106-110, 2017, WOS:000426794000015 (**12,5 puncte**) 2.4.4. B.C. Neagu, **Gh. Grigoraş**, Fl. Scarlatache, C. Schreiner, R. Ciobanu, Patterns discovery of load curves characteristics using clustering based data mining, 2017 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 83 – 87, 2017, WOS:000406491800013 (**10 puncte**) 2.4.5. Fl. Scarlatache, **Gh. Grigoraş**, B.C. Neagu, C. Schreiner, R. Ciobanu, Influence of hybrid energy systems on micro-grids control, 2017 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 313 – 317, 2017, WOS:000406491800050 (**10 puncte**) 2.4.6. B.C. Neagu, **Gh. Grigoraș**, Fl.Scarlatache, Effects of outliers on calculation of load profile factors, 2017 International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2017, WOS:000428462600009 (**16,66 puncte**) 2.4.7. Fl. Scarlatache, **Gh. Grigoraș**, B.C. Neagu, Clustering Based Data Mining in Wind Power Production, ECAI 2017 - International Conference – 9th Edition Electronics, Computers and Artificial Intelligence, 29 June -01 July, 2017, Targoviste, Romania WOS:000425865900119 (**16,66 puncte**) 2.4.8. **Gh. Grigoraş**, B.C. Neagu, Florina Scarlatache, Smart metering based approach for phase balancing in low voltage distribution systems, 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 551 -554, 2017 WOS:000403399400107 (**16,66 puncte**) 2.4.9. B.C. Neagu, **Gh. Grigoraş**, Fl.Scarlatache, Outliers discovery from Smart Meters data using a statistical based data mining approach, 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 555 -558, 2017, WOS:000403399400108 (**16,66 puncte**) 2.4.10. B.C. Neagu, **Gh. Grigoraş**, Fl. Scarlatache, Power losses estimation in harmonic polluted LV distribution networks with a fuzzy approach, 2016, 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 2016, WOS:000402541200042 (**16,66 puncte**) 2.4.11. Fl. Scarlatache, **Gh. Grigoraş**, B.C. Neagu, Decision making methodology based on fuzzy logic in optimal DG location, 2016 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 2016, WOS:000402541200117 (**16,66 puncte**) 2.4.12. **Gh. Grigoraş**, B.C. Neagu, Fl. Scarlatache, Estimation of energy losses in distribution transformers using a fuzzy approach, 2016 International Symposium on Fundamentals of Electrical Engineering (ISFEE), București, Romania, 2016, WOS:000392434400035 (**16,66 puncte**) 2.4.13. B.C. Neagu, **Gh. Grigoraș**, Fl. Scarlatache, The influence of harmonics on power losses in urban distribution networks, 016 International Symposium on Fundamentals of Electrical Engineering (ISFEE), București, Romania, 2016, WOS:000392434400036, (**16,66 puncte**) 2.4.14. Fl. Scarlatache, Gh. Grigoraș, A fuzzy approach in optimal DG planning, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 738 – 742, 2016, WOS:000390706300147 (**25 puncte**) 2.4.15. **Gh. Grigoraş**, M. Gavrilaş, Phase swapping of lateral branches from low-voltage distribution networks for load balancing, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 715 – 718, 2016, WOS:000390706300142 (**25 puncte**) 2.4.16. A. Banerjee, M. Gavrilaş, **Gh. Grigoraş**, S. Chattopadhyay, A fuzzy hybrid approach for reliability optimization problem in power distribution systems, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 809 – 814, 2016, WOS:000390706300159, (**12,5 puncte**) 2.4.17. B. Neagu, **Gh. Grigoraş**, Assesment of Slow Voltage Variations from the Electric Distribution Systems with Fuzzy Techniques, ECAI 2015 - – 7th International Conference on Electronics, Computers and Artificial Intelligence, 25 June -27 June, 2015, București, Romania (**25 puncte**) 2.4.18. **Gh. Grigoras**, Fl. Scarlatache, Processing of Smart Meters Data for Peak Load Estimation of Consumers, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2015), Bucharest, Romania, 7 – 9 May 2015. (**25 puncte**) 2.4.19. Fl. Scarlatache, **Gh. Grigoras**, Placement of DG Sources Using a Clustering Based Partitioning Method in Distribution Systems, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2015), Bucharest, Romania, 7 – 9 May 2015. (**25 puncte**) 2.4.20. A. Banerjee, M. Gavrilas, **Gh. Grigoras**, S. Chattopadhyay, Decision making in assessment of RRAP of WSN using fuzzy-hybrid approach, 2015 IEEE International Conference on Advanced Networks and Telecommuncations Systems (ANTS), Kolkata, India, 15 – 18 december, 2015. (**12,5 puncte**) **b. Volume indexate BDI (47,5 puncte)** 2.4.21. **Gh. Grigoraş**, B.C. Neagu, A. Adasacalitei, On the Assessment of Slow Voltage Variations in Electric Distribution Networks using K-Means Clustering Algorithm, 2nd IMEKO TC4 International Symposium & 20th International Workshop on ADC Modelling and Testing, Iași, Romania, September 14-15, 2017 (**10 puncte**) 2.4.22. B.C. Neagu, **Gh. Grigoraș**, Detection of Irregular Consumption to Load Monitoring in Smart Grids, 2nd IMEKO TC4 International Symposium & 20th International Workshop on ADC Modelling and Testing, Iași, Romania, September 14-15, 2017 (**15 puncte**) 2.4.23. B.C. Neagu, **Gh. Grigoraș**, An Efficient Metaheuristic Algorithm for Optimal Capacitor Allocation	**392,5**

	in Electric Distribution Networks, 2017 2nd International Conference on Software, Multimedia and Communication Engineering (SMCE 2017), Shanghai, China, pp. 327- 332, 2017 (**15 puncte**) 2.4.23. A. Banerje, S. Chattopadhyay, A.K. Mukhopadhyay, **Gh. Grigoraş**, A fuzzy-ACO algorithm to enhance reliability optimization through energy harvesting in WSN, 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), Chennai, India, pp. 584 – 589, 2016 (**7,5 puncte**)	
	2.5. Brevete acordate, produse omologate **Realizări:** 2.5.1. ..... 2.5.2.	**0**
	2.6. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie **Realizări:** 2.6.1. Platforma de management si control integrat al fluxurilor purtatorilor de energie in scopul cresterii eficientei energetice la IMM-uri, Grant PN-III-P2-2.1-CI-2017-0190, Contract 105CI/25.07.2017 – Responsabil proiect (**75 puncte**) 2.6.2. Sistem integrat pentru optimizarea consumului de energie a grupurilor de pompare din cadrul sistemelor de irigații ,Grant PN-III-P2-2.1-CI-2017-0169, Contract 17CI/25.07.2017 (3 membri) – Membru (**25 puncte**) 2.6.3. Instrument software pentru gestiunea tranzactiilor pe piata de energie electrica, Grant PN-III-P2-2.1-CI-2017-0328, Contract 45CI/25.07.2017 (4 membri) – Membru (**18,75 puncte**)	**118,75**
	2.7. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare încheiate cu institute de cercetare, companii, regii, societăţi comerciale **Realizări:** **2.7.1.** Prognoza de consum propriu tehnologic pentru reaua de energie electrica din zona de activitate a Delgaz Grid. S.A., Contract nr. 448P / 15.03.2017; beneficiar: Delgaz Grid. S.A – Membru (44888 lei) (5 membri) – (**8,97 puncte**) **2.7.2.** 2.7.2. Elaborare studii - Servicii de consultanta de specialitate in proiectul E.ON Distributie Romania S.A. de reducere a pierderilor tehnice in retelele de distributie a energiei electrice; beneficiar: E.ON Moldova Distributie S.A, Iasi, contract de cercetare nr. 684P / 21.04.2016 (valoare contract: 12.000 RON) – act aditional prelungire 31.12.2017; beneficiar: EON Distribuție Romania S.A. – Membru (12000) (5 membri) – (**2.4 puncte**)	**11.37**
	2.8. Creaţii de arhitectură, urbanism, restaurări, design şi arte plastice **Realizări:**	**0**
	2.9. Citări în reviste cotate ISI sau indexate în baze de date internaţionale (BDI) **Realizări:** a. **Citări în reviste cotate ISI sau indexate în baze de date internaţionale (BDI), în volume ale conferinelor indexate ISI sau BDI (343 puncte)** 2.9.1. LUCRAREA: Rotaru FI, Chicco G., Grigoras Gh., Cartina Gh., Two-stage distributed generation optimal sizing with clustering-based node selection, International Journal of Electrical Power & Energy Systems, Vol. 40, No. 1, September 2012, Pages 120–129, doi:10.1016/j.ijepes.2012.02.012 (**193 puncte**) a fost citata in lucrarile: 1. Georgilakis, P. S., & Hatziargyriou, N. D. (2013). Optimal distributed generation placement in power distribution networks: models, methods, and future research. IEEE Transactions on Power Systems, 28(3), 3420-3428. (**5 puncte**) 2. Peik-Herfeh, M., Seifi, H., & Sheikh-El-Eslami, M. K. (2013). Decision making of a virtual power plant under uncertainties for bidding in a day-ahead market using point estimate method. International Journal of Electrical Power & Energy Systems, 44(1), 88-98. (**5 puncte**) 3. Ugranlı, F., & Karatepe, E. (2013). Multiple-distributed generation planning under load uncertainty and different penetration levels. International Journal of Electrical Power & Energy Systems, 46, 132-144. (**5 puncte**) 4. Dehghanian, P., Hosseini, S. H., Moeini-Aghtaie, M., & Arabali, A. (2013). Optimal siting of DG units in power systems from a probabilistic multi-objective optimization perspective. International Journal of Electrical Power & Energy Systems, 51, 14-26. (**5 puncte**) 5. Murthy, V. V. S. N., & Kumar, A. (2013). Comparison of optimal DG allocation methods in radial distribution systems based on sensitivity approaches.International Journal of Electrical Power & Energy Systems, 53, 450-467 (**5 puncte**) 6. Rozali, N. E. M., Alwi, S. R. W., Manan, Z. A., Klemeš, J. J., & Hassan, M. Y. (2014). Optimal sizing of hybrid power systems using power pinch analysis.Journal of Cleaner Production, 71, 158-167. (**5 puncte**) 7. Jahromi, M. E., Ehsan, M., & Meyabadi, A. F. (2012). A dynamic fuzzy interactive approach for DG expansion planning. International Journal of Electrical Power & Energy Systems, 43(1), 1094-1105. (**5 puncte**) 8. Yadav, A., & Srivastava, L. (2014, January). Optimal placement of distributed generation: An overview and key issues. In Power Signals Control and Computations (EPSCICON), 2014 International Conference on (pp. 1-6). IEEE. (**2 puncte**) 9. De Souza, A. R. R., Fernandes, T. S. P., Aoki, A. R., Sans, M. R., Oening, A. P., Marcilio, D. C., & Omori, J. S. (2013). Sensitivity analysis to connect distributed generation. International Journal of Electrical Power & Energy Systems, 46, 145-152. (**5 puncte**) 10. Ugranlı, F., & Karatepe, E. (2013). Optimal wind turbine sizing to minimize energy loss. International	**591**

Journal of Electrical Power & Energy Systems, 53, 656-663. (**5 puncte**)

11. Ebrahimi, R., Ehsan, M., & Nouri, H. (2013). A profit-centric strategy for distributed generation planning considering time varying voltage dependent load demand. International Journal of Electrical Power & Energy Systems, 44(1), 168-178. (**5 puncte**)
12. Vinothkumar, K., & Selvan, M. P. (2014). Hierarchical agglomerative clustering algorithm method for distributed generation planning. International Journal of Electrical Power & Energy Systems, 56, 259-269. (**5 puncte**)
13. Li Jing, Wei Wei, Xin Huanhai, & Peng Yonggang. (2014). Based on the optimal allocation of wind power probability trend of distributed power. Automation of Electric Power Systems, 38 (14), 70G76. (ACM0) (**3 puncte**)
14. Chen, G., Chen, B., Dai, P., & Zhou, H. (2013). A Sustainability-Oriented Multiobjective Optimization Model for Siting and Sizing Distributed Generation Plants in Distribution Systems. Mathematical Problems in Engineering, 2013. (**5 puncte**)
15. Sultana, S., & Roy, P. K. (2015). Oppositional krill herd algorithm for optimal location of distributed generator in radial distribution system. International Journal of Electrical Power & Energy Systems, 73, 182-191. (**5 puncte**)
16. Hui, W., & Fangqiu, X. (2012, December). Different load models based on particle swarm algorithm for the siting and sizing optimization problem for distributed power. In 2012 10th International Power & Energy Conference (IPEC) (pp. 19-24). (IEEE Xplore) (**1 punct)**
17. Gupta, P., Pandit, M., & Kothari, D. P. (2014, December). A review on optimal sizing and siting of distributed generation system: Integrating distributed generation into the grid. In Power India International Conference (PIICON), 2014 6th IEEE (pp. 1-6). (**2 puncte**)
18. Singh, A. K., & Parida, S. K. (2015). Allocation of distributed generation using proposed DMSP approach based on utility and customers aspects under deregulated environment. International Journal of Electrical Power & Energy Systems, 68, 159-169. (**5 puncte**)
19. Prenc, R., Bogunović, N., & Cuculić, A. (2015). The effect of distributed generation type and location constraints on the solution of the allocation algorithm. International Review of Electrical Engineering (IREE), 10(1), 88-97. (SCOPUS) (**3 puncte**)
20. Dehghanian, P., Hosseini, S. H., Moeini-Aghtaie, M., & Arabali, A. (2013). Electrical Power and Energy Systems. Electrical Power and Energy Systems,51, 14-26. (**5 puncte**)
21. Georgilakis, P. S. (2013). Integration of Distributed Generation in the Power System, M. Bollen, F. Hassan. Wiley–IEEE Press, New Jersey (2011). (**5 puncte**)
22. Ugranlı, F., & Karatepe, E. (2015). Multi-objective transmission expansion planning considering minimization of curtailed wind energy. International Journal of Electrical Power & Energy Systems, 65, 348-356. (**5 puncte**)
23. Huy, P. D., Ramachandaramurthy, V. K., & Pesaran, H. M. (2015, November). Optimal selection of location, sizing and power factor for solar PV plants using differential evolution. In Smart Grid Technologies-Asia (ISGT ASIA), 2015 IEEE Innovative (pp. 1-6). (**2 puncte**)
24. Nojavan, S., Jalali, M., & Zare, K. (2015). An MINLP Approach for Optimal DG Unit's Allocation in Radial/Mesh Distribution Systems Take into Account Voltage Stability Index. Iranian Journal of Science and Technology. Transactions of Electrical Engineering,39(E2), 155. (**5 puncte**)
25. Kumawat, M., Gupta, N., Jain, N., & Saxena, D. (2015, January). Optimal distributed generation placement in power distributed networks: A review. In Electrical, Electronics, Signals, Communication and Optimization (EESCO), 2015 International Conference on (pp. 1-6). (**2 puncte**)
26. Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, International Journal of Electrical, Electronics and Computer Systems (IJEECS), Vol.1, No. 1, 2013. (DOAJ) (**3 puncte**)
27. SD. Meera Shareef, T.Vinod Kumar (2014), A Review on Models and Methods for Optimal Placement of Distributed Generation in Power Distribution System, International Journal of Education and applied research (IJEAR), 4(1), 161-169. (Index Copernicus) (**3 puncte**)
28. Prakash, P., & Khatod, D. K. (2016). Optimal sizing and siting techniques for distributed generation in distribution systems: A review. Renewable and Sustainable Energy Reviews, 57, 111-130 (**5 puncte**)
29. Sultana, S., & Roy, P. K. (2016). Krill herd algorithm for optimal location of distributed generator in radial distribution system. Applied Soft Computing, 40, 391-404. (**5 puncte**)
30. Sultana, U., Khairuddin, A. B., Aman, M. M., Mokhtar, A. S., & Zareen, N. (2016). A review of optimum DG placement based on minimization of power losses and voltage stability enhancement of distribution system. Renewable and Sustainable Energy Reviews, 63, 363-378. (**5 puncte**)
31. Elahimanesh, A., Moghimi, S. M., & Aghamohammadi, M. R. (2016). Effect of distributed generation units on stability improving trend of IEEE 14 and 34 Bus test network voltage. Indian Journal of Science and Technology, 9(15). (EBSCO) (**3 puncte**)
32. Kumar, M., Kumar, A., & Sandhu, K. S. (2016). PV-WT Based Distribution Generator Location Minimizing Transmission Loss in Pool/Bilateral Electricity Market Model. Procedia Technology, 25, 692-701. (ELSEVIER) (**3 puncte**)
33. Kools, L., & Phillipson, F. (2016). Data granularity and the optimal planning of distributed generation. Energy, 112, 342-352. (**5 puncte**)
34. HA, M. P., Huy, P. D., & Ramachandaramurthy, V. K. (2016). A review of the optimal allocation of distributed generation: Objectives, constraints, methods, and algorithms. Renewable and Sustainable Energy Reviews. 75, 293 – 312. (**5 puncte**)
35. Theo, W. L., Lim, J. S., Ho, W. S., Hashim, H., & Lee, C. T. (2017). Review of distributed generation (DG) system planning and optimisation techniques: Comparison of numerical and mathematical modelling methods. Renewable and Sustainable Energy Reviews, 67, 531-573. (**5 puncte**)
36. Kazmi, S. A. A., Shahzad, M. K., & Shin, D. R. (2017). Multi-Objective Planning Techniques in Distribution Networks: A Composite Review. Energies, 10(2), 208. (**5 puncte**)

37. HA, M. P., Huy, P. D., & Ramachandaramurthy, V. K. (2017). A review of the optimal allocation of distributed generation: Objectives, constraints, methods, and algorithms. Renewable and Sustainable Energy Reviews, 75, 293-312. (**5 puncte**)
38. Durairasan, M., Kalaiselvan, A., & Sait, H. H. (2017). Hybrid Technique for Locating and Sizing of Renewable Energy Resources in Power System. Journal of Electrical Engineering & Technology, 12(1), 161-172. (**3 puncte**)
39. Al Ameri, A., & Nichita, C. (2017). Linear model for optimal distributed generation size predication. Advances in Electrical and Electronic Engineering, 15(1), 28. (SCOPUS, EBSCO) (**5 puncte**)
40. Gkaidatzis, P. A., Bouhouras, A. S., Doukas, D. I., Sgouras, K. I., & Labridis, D. P. (2017). Load variations impact on optimal DG placement problem concerning energy loss reduction. Electric Power Systems Research, 152, 36-47. (**5 puncte**)
41. Chen, H., Hu, Z., Jia, Y., & Shen, Z. J. M. (2017). Risk-Averse Joint Capacity Evaluation of PV Generation and Electric Vehicle Charging Stations in Distribution Networks, IEEE PES Innovation Smart Grids Technologies (ISGT 2017), Torino, Italia (IEEE Xplore) (**1 punct**)
42. Othmann M.M., El-Khattan W., Abdelaziz A.Y., A Firefly based Optimization Algorithm for Optimal Planning of Voltage Controlled Distributed Generators, Engineering Optimization IV, 523 – 528, Francis & Taylor Group (SCOPUS) (**3 puncte**)
43. Sultana U., Khairuddina A., Mokhtara A. S., Hussain Qazia S., Sultanaa B., An Optimization Approach for Minimizing Energy Losses of Distribution Systems based on Distributed Generation Placement, Jurnal Teknologi, vol. 79, no. 4, pp. 87 – 96, 2017 (SCOPUS) (**3 puncte**)
44. Matos, D. M. B., & Catalão, J. P. S. (2013). Geração Distribuída e os seus Impactes no Funcionamento da Rede Elétrica: Parte 2. *Potência*, *1*(2), 3. (**3 puncte**)
45. Morvaj, B., Evins, R., and Carmeliet, J. (2015). Bi-level optimisation of distributed energy systems incorporating non-linear power flow constraints. In *Proceedings of International Conference CISBAT 2015 Future Buildings and Districts Sustainability from Nano to Urban Scale* (No. EPFL-CONF-213433, pp. 859-864). LESO-PB, EPFL. (**1 punct**)
46. Tamayo, D. C. L., Burgos, P. A. N., & Lezama, J. M. L. (2015). Optimal location and sizing of distributed generation: a review of the state of the art.*REVISTA POLITÉCNICA*, *11*(20), 99-110. (**3 puncte**)
47. *E. R. Magaril, C. A. Brebbia, M. Y. Khodorovsky, Energy Productionand Management in the 21st Century, Vol 1, WIT Press, 2014.* http://books.google.ro/books?id=2nj4AgAAQBAJ&pg=PA453&lpg=PA453&dq=Twostage+distributed+generation+optimal+sizing+with+clusteringbased+node+selection&source=bl&ots=dR2RFyEqcf&sig=YVOkc1SivLg0ZeZVw1gkuCW6k24&hl=en&sa=X&ei=AS6MU5zZLsWROKXkgKgD&redir_esc=y#v=onepage&q=Twostage%20distributed%20generation%20optimal%20sizing%20with%20clustering-based%20node%20selection&f=fals. (**3 puncte**)
48. *Whole sale Distributed Generation (WDG) Catalogue of Benefits,* http://www.clean-coalition.org/site/wp-content/uploads/2013/07/WDG-Catalogue-of-Benefits-04_jb-26-July-2013.pddf. (**3 puncte**)
49. Karanja, J. M., L. M. Ngoo, and Christopher M. Muriithi. A review of multi-objective methods for optimal location and capacity of distributed generations in modern power systems, Proceedings of the Sustainable Research and Innovation Conference, JKUAT Main Campus, Kenya 3 - 5 May 2017 2017. (**1 punct**)
50. Penangsang, Ontoseno, Dimas Fajar Uman Putra, and Taufani Kurniawan. "Optimal placement and sizing of distributed generation in radial distribution system using K-means clustering method." Intelligent Technology and Its Applications (ISITIA), 2017 International Seminar on. IEEE, 2017.(**2 puncte**)

2.9.2. LUCRAREA:

Bobric E.C., Cârţină Gh., Grigoraş Gh, *Clustering Techniques in Load Profile Analyze for Distribution Stations*, Journal of Advances in Electrical and Computer Engineering, Romania, Nr.1, 2009, pp. 63 – 66, ISSN: 1582 – 7445 (**59 puncte**)

a fost citata in lucrarile:

1. Rogers, D. F., & Polak, G. G. (2013). Optimal clustering of time periods for electricity demand-side management. IEEE Transactions on Power Systems,28(4), 3842-3851. (**5 puncte**)
2. Filote, C., Ciufudean, C., Alaci, S., & Cozgarea, A. M. (2011, August). Wavelet multiresolution analysis of TPRD and RNSIC input current. In 11th WSEAS International Conference on signal processing, computational geometry and artificial vision (pp. 158-165). (SCOPUS) (**1 punct**)
3. Filote, C., Ciufudean, C., & Cozgarea, A. M. (2009, September). A comparative analysis of total harmonic distortion in TPRD and RNSIC. In 2009 13th European Conference on Power Electronics and Applications. (**2 puncte**)
4. Piao, M., Li, M., & Ryu, K. H. (2010, June). Using Significant Classification Rules to Analyze Korean Customers' Power Consumption Behavior: Incremental Tree Induction using Cascading-and-Sharing Method. In 2010 10th IEEE International Conference on Computer and Information Technology. (IEEE Xplore) (**1 punct**)
5. Filote, C., Ciufudean, C., Musteata, F., Chirila, O., & Cozgarea, A. M. (2010). New method for power factor correction with RNSIC. In Proc. of Int. Conf. on Circuits, Systems, Signals, CSS (pp. 353-358). (**2 puncte**)
6. Komenda, T., & Komenda, N. (2012). Morphometrical analysis of daily load graphs. International Journal of Electrical Power & Energy Systems, 42(1), 721-727. (**5 puncte**)
7. Varga, E. D., Beretka, S. F., Noce, C., & Sapienza, G. (2015). Robust real-time load profile encoding and classification framework for efficient power systems operation. IEEE Transactions on Power

Systems, 30(4), 1897-1904. (**5 puncte**)

8. Beretka, S. F., & Varga, E. D. (2013). Efficient encoding of customer class load profiles. In 2013 Africon, Pointe aux Piments, MAURITIUS. (**2 puncte**)
9. Beretka, S. F., & Varga, E. D. (2013, October). Locality sensitive hashing of customer load profiles. In 2013 International Conference on Renewable Energy Research and Applications (ICRERA). (**2 puncte**)
10. Brabec, M., Konár, O., Malý, M., Kasanický, I., & Pelikán, E. (2015). Statistical models for disaggregation and reaggregation of natural gas consumption data. Journal of Applied Statistics, 42(5), 921-937. (**5 puncte**)
11. Filote, C., Ciufudean, C., Micea, M. V., & Cozgarea, A. M. Power Factor Improvement Using Rnsic Rectifier, Proceedings of the IASTED International Conference, November 24 - 26, 2010 Phuket, Thailand, Power and Energy Systems (AsiaPES 2010) (SCOPUS) (**1 punct**)
12. Rahideh, A., Gitizadeh, M., & Sadrzadeh, A. (2015, April). Voltage and reactive power control in a distribution system using hybrid SA-DBPSO algorithm. In Electrical Power Distribution Networks Conference (EPDC), 2015 20th Conference on (pp. 72-77). (**2 puncte**)
13. Mujović, S., Djukanović, S., Radulović, V., Katić, V., & Rašović, M. (2013). Least Squares Modeling of Voltage Harmonic Distortion Due to PC Cluster Operation. Advances in Electrical and Computer Engineering, 13(4). (**5 puncte**)
14. Mets, K., Depuydt, F., & Develder, C. (2015), Two-Stage Load Pattern Clustering Using Fast Wavelet Transformation, IEEE Transactions on Smart Grid, Vol. 7 , nr. 5, pp. 2250 – 2259, 2016. (**5 puncte**)
15. Malik, F. H., Mubbashir, A., & Lehtonen, M. (2014). Collaborative Demand Response Optimization of Electric Vehicles and Storage Space Heating for Residential Peak Shaving. International Review of Electrical Engineering (IREE), 9(6), 1154-1161. (SCOPUS) (**3 puncte**)
16. Blagojević, M., Micić, Ž., & Vujičić, M. (2016). Cluster analysis of knowledge sources in standardized electrical engineering subfields. Serbian Journal of Electrical Engineering, 13(3), 405-422. (SCOPUS) (**3 puncte**)
17. Aun, S. L. Z., Marsadek, M. B., & Ramasamy, A. K. (2017). Small Signal Stability Analysis of Grid Connected Photovoltaic. Indonesian Journal of Electrical Engineering and Computer Science, 6(3). (SCOPUS) (**3 puncte**)
18. Mujović, S., Djukanović, S., & Katić, V. A. (2017). Simultaneous Operation of Personal Computers and Mathematical Assessment of Their Harmonic Impact on the Grid. In Advanced Technologies, Systems, and Applications (pp. 57-79). (Springer). (**3 puncte**)
19. Chen, K., Hu, J., & He, Z. (2017, July). Data-driven residential customer aggregation based on seasonal behavioral patterns. In Power & Energy Society General Meeting, 2017 IEEE (pp. 1-5). IEEE (**2 puncte**)
20. Iqteit, N. A., Arsoy, A. B., & Çakir, B. (2017, November). A simple method to estimate power losses in distribution networks. In Electrical and Electronics Engineering (ELECO), 2017 10th International Conference on (pp. 135-140). IEEE. (**2 puncte**)

2.9.3. LUCRAREA:

Bobric E.C., Cârţină Gh., **Grigoraş Gh**., *Fuzzy Techniques used for Energy Losses Determination in Medium and Low Voltage Networks*, Journal of Electronics and Electrical Engineering, Lituania, Nr. 2 (90), 2009, pp. 95 – 98 (**27 puncte**)

a fost citata in lucrarile:

1. Lisauskas, S., & Rinkevičienė, R. (2015). Model of ventilation system drive with Fuzzy controller. *Elektronika ir Elektrotechnika*, *106*(10), 13-16. (**5 puncte**)
2. Han, Y., Xu, L., Yao, G., Zhou, M., & Chen, C. (2015). The adaptive signal processing scheme for power quality conditioning applications based on active noise control (ANC). *Elektronika ir Elektrotechnika*, *96*(8), 9-14. (**5 puncte**)
3. Filote, C., Ciufudean, C., & Cozgarea, A. M. (2009, September). A comparative analysis of total harmonic distortion in TPRD and RNSIC. In *2009 13th European Conference on Power Electronics and Applications*. (**2 puncte**)
4. Sylwester, F. (2011). Application of Classifier System and Co-Evolutionary Algorithm in Optimization of Medium-Voltage Distribution Networks Post-Fault Configuration. *Elektronika ir Elektrotechnika*, *115*(9), 9-15. (**5 puncte**)
5. Erguzel, T. T. (2013). Fuzzy controller parameter optimization using genetic algorithm for a real time controlled system. In *Proceedings of the World Congress on Engineering* (Vol. 2, pp. 3-5). (**2 puncte**)
6. Juraitis, S., Rinkeviciene, R., & Kriauciunas, J. (2011). Fuzzy Controller of Two-mass System. *Elektronika ir Elektrotechnika*, *116*(10), 3-6. (**5 puncte**)
7. Stępień, J., & Filipiak, S. (2014). Optimisation of Distribution Network Configuration with the Aid of Co-Evolutionary Algorithm with Regard for Reliability Coefficients Varying During Operation of Network Elements.*Universal Journal of Electrical and Electronic Engineering*, *2*(3), 97-104. (**3 puncte**)

2.9.4.LUCRAREA:

Gh. Grigoras, Gh. Cartina, M. Gavrilas, *Using of Clustering Techniques in Optimal Placement of Phasor Measurements Units",* , Proceedings of the 9th WSEAS/IASME International Conference on Electric Power Systems, High Voltages, Electric Machines, Genova, Italy, pp.104-108 (**9 puncte**)

a fost citata in lucrarile:

1. Priyadharshini, M., & Meenakumari, R. (2014, March). Probabilistic approach based optimal

placement of phasor measurement units via the estimation of dynamic vulnerability assessment. In *Green Computing Communication and Electrical Engineering (ICGCCEE), 2014 International Conference on* (pp. 1-7). IEEE. (**2 puncte**)

2. Takata, M., Miyata, Y., & Nishikawa, N. (2015, March). Proposal of analytics software architecture with data preparation layer for fast event identification in wide-area situational awareness. In *Industrial Technology (ICIT), 2015 IEEE International Conference on* (pp. 1741-1746). IEEE. (**1 punct)**
3. Abdelaziz A. Y., Amr M. Ibrahim, Reham H. Salem (2013), Power system observability with minimum phasor measurement units placement, ,*International Journal of Engineering, Science and Technology,* Vol. 5, No. 3, 2013, pp. 1-18. (**3 puncte**)
4. Priyadharshini N, Meenakumari R, Priyadharshini M, Optimal Placement of Phasor Measurement Unit based on Power System Loss Index, Asian Journal of Research in Social Sciences and Humanities, 2016, Vol. 6, no. 11, pp. 479-491. (**3 puncte**)

2.9.5. LUCRARE:

Grigoras, Gh., Cartina, G., & Bobric, E. (2010). Strategies for Power/Energy Saving in Distribution Networks. *Advances in Electrical and Computer Engineering*, *10*(2), 61-64. (**21 puncte**)

a fost citata in lucrarile:

1. Xiao, P., & Liu, D. (2015). Improving network routing energy–efficiency for real–time workloads by stochastic service model. *International Journal of Information and Communication Technology*, *7*(2-3), 302-315. (**3 puncte**)
2. Selakov, A., Cvijetinović, D., & Ilić, S. (2012). Short term load forecasting using support vector machines for different consumer types. *Journal on Processing and Energy in Agriculture*, *16*(3), 128-131. (**3 puncte**)
3. Peng, X., Peixin, Q., & Xilong, Q. (2013). An Energy-aware Routing Mechanism for Latency-sensitive Traffics. *International Journal of Grid and Distributed Computing*, *6*(6), 23-36. (**3 puncte**)
4. Malik, F. H., Mubbashir, A., & Lehtonen, M. (2014). Collaborative Demand Response Optimization of Electric Vehicles and Storage Space Heating for Residential Peak Shaving. *International Review of Electrical Engineering (IREE)*, *9*(6), 1154-1161. (**3 puncte**)
5. Grujić, A., & Stojković, Z. (2016). Fuzzy logic-based concept for high-voltage substation risk management against lightning. *IEEJ Transactions on Electrical and Electronic Engineering*, 11(S1), S28-S36. (**3 puncte**)
6. Tang, C., Zhu, S., Li, J., Zhang, D., & Yang, J. (2014). A modified optimization model for the location selection of distribution transformer used in rural power network. *Journal of Computers*, *9*(4), 875-882. (**3 puncte**)
7. Sarchiz, D., Dub, V., & Bucur, D. (2010). Optimization Strategies to Increase Electrical Distribution Networks Robustness 20 kV and 110 kV from County Mures. *Scientific Bulletin of the" Petru Maior" University of Targu Mures*, *7*(2), 10. (**3 puncte**)

2.9.6. LUCRAREA:

Grigoras, G., & Scarlatache, F. (2015). An assessment of the renewable energy potential using a clustering based data mining method. Case study in Romania. *Energy*, *81*, 416-429. (**53 puncte**)

a fost citata in lucrarile:

1. Meldon, J., & Benjamin, R. (2015), Renewable Energy Integration and the Algorithm of Power Generation and Cogeneration Management.*Journal of Electrical Engineering and Science,* 1(1). (**3 puncte**)
2. Darvishi, A., & Hassanpour, H. (2015). A Geometric View of Similarity Measures in Data Mining. *International Journal of Engineering-Transactions C: Aspects*, *28*(12), 1728. (**3 puncte**)
3. Sánchez-Lozano, J. M., García-Cascales, M. S., & Lamata, M. T. (2016). Comparative TOPSIS-ELECTRE TRI methods for optimal sites for photovoltaic solar farms. Case study in Spain. *Journal of Cleaner Production*, *127*, 387-398. (**5 puncte**)
4. Izadyar, N., Ong, H. C., Chong, W. T., & Leong, K. Y. (2016). Resource assessment of the renewable energy potential for a remote area: a review. Renewable and Sustainable Energy Reviews, 62, 908-923. (**5 puncte**)
5. Proskurina, S., Sikkema, R., Heinimö, J., & Vakkilainen, E. (2016). Five years left–How are the EU member states contributing to the 20% target for EU's renewable energy consumption; the role of woody biomass. Biomass and bioenergy, 95, 64-77. (**5 puncte**)
6. Onea, F., & Rusu, E. (2016). The expected efficiency and coastal impact of a hybrid energy farm operating in the Portuguese nearshore. Energy, 97, 411-423. (**5 puncte**)
7. Zhao, C., Qiao, X., Cao, Y., & Shao, Q. (2017). Application of hydrogen peroxide presoaking prior to ammonia fiber expansion pretreatment of energy crops. Fuel, 205, 184-191. (**5 puncte**)
8. Operacz, A. (2017). The term “effective hydropower potential” based on sustainable development–an initial case study of the Raba river in Poland. Renewable and Sustainable Energy Reviews, 75, 1453-1463. (**5 puncte**)
9. Yesilbudak, M. (2016, November). Clustering analysis of multidimensional wind speed data using k-means approach. In Renewable Energy Research and Applications (ICRERA), 2016 IEEE International Conference on (pp. 961-965). IEEE. (**2 puncte**)
10. Chidean, M. I., Caamaño, A. J., Ramiro-Bargueño, J., Casanova-Mateo, C., & Salcedo-Sanz, S. (2017). Spatio-temporal analysis of wind resource in the Iberian Peninsula with data-coupled clustering. Renewable and Sustainable Energy Reviews. (**5 puncte**)
11. Kandemir, S. Y., & Yaylı, M. Ö. (2016). Investigation of Renewable Energy Sources for Airports. In Sustainable Aviation (pp. 11-16). Springer, Cham. (**3 puncte**)

12. Lupu, A. G., Dumencu, A., Atanasiu, M. V., Panaite, C. E., Dumitrașcu, G., & Popescu, A. (2016, August). SWOT analysis of the renewable energy sources in Romania-case study: solar energy. In IOP Conference Series: Materials Science and Engineering (Vol. 147, No. 1, p. 012138). IOP Publishing. (**2 puncte**)
13. Năstase, G., Şerban, A., Năstase, A. F., Dragomir, G., Brezeanu, A. I., & Iordan, N. F. (2017). Hydropower development in Romania. A review from its beginnings to the present. Renewable and Sustainable Energy Reviews, 80, 297-312. (**5 puncte**)

2.9.7. LUCRAREA:

Grigoras, G., Cartina, G., & Rotaru, F. (2010, October). Using K-means clustering method in determination of the energy losses levels from electric distribution systems. In *Proceedings of the 12th WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, Timisoara, Romania* (pp. 52-6). (**3 puncte**)

a fost citata in lucrarea:

1. Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (**3 puncte**)

2.9.8. LUCRAREA:

Cartina, G., Grigoras, G., & Bobric, E. C. (2007, October). Power system analysis using Matlab toolboxes. In *6th International Conference on Electromechanical and Power Systems, Chisinau, Rep. Moldova*. (**13 puncte**)

a fost citata in lucrarile:

1. Al-Sheikh, H., & Moubayed, N. (2012). An overview of simulation tools for renewable applications in power systems. In *2012 2nd International Conference on Advances in Computational Tools for Engineering Applications (ACTEA)*. (**2 puncte**)
2. Akorede, M. F., & Hizam, H. (2009, December). Teaching power system analysis courses using MATPOWER. In Engineering Education (ICEED), 2009 International Conference on (pp. 45-51). IEEE. 90 (**1 punct**)
3. Shaikh, S. K. M., & Dharme, A. A. (2009, December). Time of Use pricing-India, a case study. In *Power Systems, 2009. ICPS'09. International Conference on* (pp. 1-6). IEEE. (**1 punct**)
4. Tanwani, N. K., Memon, A. P., Adil, W. A., & Ansari, J. A. Simulation Techniques of Electrical Power System Stability Studies Utilizing Matlab/Simulink. *engineer*, *9*, 18. (**3 puncte**)
5. Bobric, E. C., Irimia, D., Rata, G., & Rata, M. Planning and Management of the Power System Using Dsatools'software, *ANNALS of the ORADEA UNIVERSITY*, Fascicle of Management and Technological Engineering, Volume IX (XIX), 2010, NR1.(**3 puncte**)
6. Zamani, I. (2015). *Optimal distributed generation planning based on NSGA-II and MATPOWER* (Doctoral dissertation, Brunel University London). (**3 puncte**)

2.9.9. LUCRAREA:

Grigoraş, G., & Scarlatache, F. (2014, May). Use of data from smart meters in optimal operation of distribution systems. In *2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* (pp. 179-184). IEEE. (**9 puncte**)

a fost citata in lucrarile:

1. Dev, V. C., Das, U., Namboodiri, V., Chakraborty, S., Aravinthan, V., Guo, Y., & Srivastava, A. (2015, November). Towards application-aware data concentration schemes for advanced metering infrastructures. In *2015 IEEE International Conference on Smart Grid Communications (SmartGridComm)*(pp. 440-445). IEEE. (**2 puncte**)
2. Uribe-Pérez, N., Hernández, L., de la Vega, D., & Angulo, I. (2016). State of the art and trends review of smart metering in electricity grids. Applied Sciences, 6(3), 68. (**5 puncte**)
3. Avram, S., Plotenco, V., & Paven, L. N. (2017, May). Design and development of an electricity Meter Test Equipment. In Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), 2017 International Conference on (pp. 96-101). IEEE. (**2 puncte**)

2.9.10. LUCRAREA:

Cartina, G., Grigoras, G., & Bobric, E. C. Clustering techniques for energy losses evaluation in distribution networks. In *2009 IEEE Bucharest PowerTech*. (**15 puncte**)

a fost citata in lucrarile:

1. Zhang, Y. J., Zhang, X. T., Li, Q. H., Ran, L., & Cai, Z. X. (2014). Gray theory based energy saving potential evaluation and planning for distribution networks.*International Journal of Electrical Power & Energy Systems*, *57*, 298-303. (**5 puncte**)
2. Zhang, Y. J., & Zhan, X. T. (2012, September). Study on energy saving potential evaluation for distribution networks. In *Power Engineering and Automation Conference (PEAM), 2012 IEEE* (pp. 1-3). IEEE. (**2 puncte**)
3. Chen, B., Cui, T., Ye, L., & Li, C. (2015, November). A comprehensive energy saving potential evaluation method for the distribution networks. In *2015 5th International Conference on Electric Utility Deregulation and Restructuring and Power Technologies (DRPT)* (pp. 478-481). IEEE. (**2 puncte**)
4. Schlueter, A., Geyer, P., & Cisar, S. (2016). Analysis of georeferenced building data for the identification and evaluation of thermal microgrids. Proceedings of the IEEE, 104(4), 713-725. (**5 puncte**)

5. Falahi, M., Alavi, H., Shaygan, M., & Hojati, A. (2013, January). A new method for optimal planning in extensive distribution networks despite uncertain data. In Electricity Distribution (CIRED 2013), 22nd International Conference and Exhibition on (pp. 1-4). IET. (**1 punct**)

2.9.11. LUCRAREA:

Cartina, G., Alexandrescu, V., Grigoras, G., & Moshe, M. (2000, May). Peak load estimation in distribution networks by fuzzy regression approach. In*Electrotechnical Conference, 2000. MELECON 2000. 10th Mediterranean* (Vol. 3, pp. 907-910). IEEE. (**11 puncte**)

a fost citata in lucrarile:

1. Zhong, S., & Tam, K. S. (2012). A frequency domain approach to characterize and analyze load profiles. *IEEE Transactions on Power Systems*, *27*(2), 857-865. (**5 puncte**)
2. Wang, J. Z., Wu, L., & Lu, H. Y. (2007, November). Special periods peak load analysis and superior forecasting method based on LS-SVM. In *2007 International Conference on Wavelet Analysis and Pattern Recognition* (Vol. 1, pp. 249-253). IEEE. (**2 puncte**)
3. Moda, H. P. (2009). *Non-Negative Least Square Optimization Model for Industrial Peak Load Estimation* (Doctoral dissertation, Virginia Polytechnic Institute and State University). (**3 puncte**)
4. M. Soni, Quantitative Assessment of Geographical Based Load Forecast Technique at Eskom Distribution: Forecast Error and Impact on Infrastructure Execution, 8th Southern Africa Regional Conference, South Africa, 2017 (**1 punct**)

2.9.12. LUCRAREA:

Grigoras, G., Scarlatache, F., & Cartina, G. Load estimation for distribution systems using clustering techniques. In *2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)*. (**23 puncte**)

a fost citata in lucrarile:

1. Semeraro, L., Crisostomi, E., Franco, A., Landi, A., Raugi, M., Tucci, M., & Giunta, G. (2014, October). Electrical load clustering: The Italian case. In *IEEE PES Innovative Smart Grid Technologies, Europe* (pp. 1-6). IEEE. (**2 puncte**)
2. Ferraro, P., Crisostomi, E., Tucci, M., & Raugi, M. (2016). Comparison and clustering analysis of the daily electrical load in eight European countries. Electric Power Systems Research, 141, 114-123. (**5 puncte**)
3. Tanwar, A. K., Crisostomi, E., Ferraro, P., Raugi, M., Tucci, M., & Giunta, G. (2015, July). Clustering analysis of the electrical load in European Countries. In Neural Networks (IJCNN), 2015 International Joint Conference on (pp. 1-8). IEEE. (**2 puncte**)
4. Bartolozzi, A., Favuzza, S., Ippolito, M. G., La Cascia, D., Riva Sanseverino, E., & Zizzo, G. (2017). A New Platform for Automatic Bottom-Up Electric Load Aggregation. Energies, 10(11), 1682. (**5 puncte**)
5. Mishra, S., Leinakse, M., & Palu, I. (2017). Wind power variation identification using ramping behavior analysis. Energy Procedia, 141, 565-571. (**5 puncte**)
6. Hussain, M. M., Zakaria, Z., Rifin, R., Hussin, M. Z., Rahman, N. A., Ilham, N. I., ... & Sani, M. M. (2017, August). Prediction of time series based on load profile using JADE technique. In Control and System Graduate Research Colloquium (ICSGRC), 2017 IEEE 8th (pp. 33-36). IEEE. (**2 puncte**)
7. Mihai, C., Popa, C., & Mircea, P. M. (2016, September). Load profiling for gas stations using cluster techniques. In Power Electronics and Motion Control Conference (PEMC), 2016 IEEE International (pp. 1041-1048). IEEE. (**2 puncte**)

2.9.13. LUCRAREA:

Grigoras, G., Cartina, G., Istrate, M., & Rotaru, F. (2011). The efficiency of the clustering techniques in the energy losses evaluation from distribution networks. *International Journal of Mathematical Models and Methods in Applied Sciences*, *5*(1), 133-140. (**3 puncte**)

a fost citata in lucrarile:

1. Philippopoulos, K., Deligiorgi, D., & Kouroupetroglou, G. (2014), Performance Comparison of Self-Organizing Maps and k-means Clustering Techniques for atmospheric circulation classification. *International Journal of Energy and Environment*, *8*, 171-180. (**3 puncte**)

2.9.14. LUCRAREA:

Istrate, M., & Grigoraş, G. (2010). Energy consumption estimation in water distribution systems using fuzzy techniques. *Environmental Engineering & Management Journal (EEMJ)*, *9*(2). (**17 puncte**)

a fost citata in lucrarile:

1. Bucur, D. M., Bunea, F., Ciocan, G. D., Băran, G., & Isbăşoiu, E. C. (2010). Water parameters evolution in a hydroelectric site. *Environmental Engineering and Management Journal*, *9*(11), 469-472. (**5 puncte**)
2. Geng, Y., Zhang, J., Zhou, Q., Xu, C., & Zhao, Y. Q. (2011). Fuzzy synthetic evaluation of Weihe water quality, *Environmental Engineering and Management Journal*, 10 (10), 1477-1484 (**5 puncte**)
3. Moraru, G., & Istrate, M. (2017, June). Elements of energy efficiency in water supply systems. A case study. In Modern Power Systems (MPS), 2017 International Conference on (pp. 1-4). IEEE. (**2 puncte**)
4. HSUEH, S., & CHENG, A. (2017). Improving Air Quality In Communities By Using A Multicriteria Decision-Making Model Based On Big Data: A Critical Review. Applied Ecology And Environmental Research, 15(2), 15-31. (**5 puncte**)

2.9.15. LUCRAREA:

Grigoras, G., Cartina, G., Bobric, E. C., & Rotaru, F. (2010, May). Evaluation of the performances of efficient transformers in distribution networks by fuzzy techniques. In *Optimization of Electrical and Electronic Equipment (OPTIM), 2010 12th International Conference on* (pp. 1281-1284). IEEE. (**7 puncte**)

a fost citata in lucrarile:

1. Cardenas, J. A., Gemoets, L., Rosas, J. H. A., & Sarfi, R. (2014). A literature survey on smart grid distribution: an analytical approach. *Journal of Cleaner Production*, *65*, 202-216. (**5 puncte**)
2. Andruşcă, M., Adam, M., Baraboi, A., Dragomir, A., & Munteanu, A. (2014, October). Using fuzzy logic for diagnosis of technical condition of power circuit breakers. In *Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on* (pp. 268-273). IEEE. (**2 puncte**)

2.9.16. LUCRAREA:

Grigoras, G., Cartina, G., & Bobric, E. C. (2010, April). An improved fuzzy method for energy losses evaluation in distribution networks. In *Melecon 2010-2010 15th IEEE Mediterranean Electrotechnical Conference* (pp. 131-135). IEEE. **(22 puncte)**

a fost citata in lucrarile:

1. Sharma, D. D., & Singh, S. N. (2015). Aberration detection in electricity consumption using clustering technique. *International Journal of Energy Sector Management*, *9*(4), 451-470. (**3 puncte**)
2. Wang, Y., Li, L., & Yang, Q. (2015, August). Application of clustering technique to electricity customer classification for load forecasting. In *Information and Automation, 2015 IEEE International Conference on* (pp. 1425-1430). IEEE. (**2 puncte**)
3. Sanchez, V. A., Lima, D. A., Ochoa, L. F., & Oliveira, M. E. (2015, June). Statistical Top-Down approach for energy loss estimation in distribution systems. In *PowerTech, 2015 IEEE Eindhoven* (pp. 1-6). IEEE. (**2 puncte**)
4. Sharma, D. D., Singh, S. N., Jeremy, L. I. N., & Foruzan, E. (2017). Identification and characterization of irregular consumptions of load data. Journal of Modern Power Systems and Clean Energy, 5(3), 465-477. (**5 puncte**)
5. Morales, D. X., Toledo, M. A., Vintimilla, J. H., & Medina, R. D. (2016, October). Smart multivariate techniques applied in the budget assignment for loss reduction in ecuador. In PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2016 IEEE (pp. 1-6). IEEE. (**2 puncte**)
6. Honarmand, M. E., Ghazizadeh, M. S., Kermanshah, A., & Haghifam, M. R. (2017). Visibility of Electric Distribution Utility Performance to Manage Loss and Reliability Indices. Journal of Electrical Engineering & Technology, 12(5), 1764-1776. (**5 puncte**)
7. Lezhnyuk, P., Rubanenko, O. Valuation of power losses in electrical networks of agro-industrial complex by criterion method with use neuro-fuzzy modelling. *Bulletin of NTU "KhPI". Series: New solutions in modern technologies*. – Kharkiv: NTU "KhPI", 2016, **18** (1190), 60-65. (**3 puncte**)

2.9.17. LUCRAREA:

Grigoras, G., Cartina, G., Bobric, E. C., & Barbulescu, C. (2009, June). Missing data treatment of the load profiles in distribution networks. In*PowerTech, 2009 IEEE Bucharest* (pp. 1-5). IEEE. (**14 puncte**)

a fost citata in lucrarile:

1. Porumb, R., & Seritan, G. (2015). Load Profiles Definition for the Electrical Distribution Operator. *Acta Electrotehnica*, *56*(3). (**3 puncte**)
2. Radu Porumb, Petru Postolache, George Seriţan, Ramona Vatu, Oana Ceaki (2013). Load Profiles analysis for Electricity Market*, Computational Methods in Social Sciences*, 1(2), 30-38.(**3 puncte**)
3. Seriţan, G., Porumb, R., Cepişcă, C., & Grigorescu, S. (2016). Integration of Dispersed Power Generation. In Electricity Distribution (pp. 27-61). Springer, Berlin, Heidelberg. (**5 puncte**)
4. Davarzani, S., Pisica, I., & Taylor, G. A. (2016, September). Study of missing meter data impact on domestic load profiles clustering and characterization. In Power Engineering Conference (UPEC), 2016 51st International Universities (pp. 1-6). IEEE. (**2 puncte**)
5. Almeida, V. A., Pessanha, J. F., & Calôba, L. P. Uma Metodologia para o Tratamento de Dados de Carga Baseada em Técnicas de Inteligência Artificial, Workpedia 2016 Workshop de Pesquisa e Desenvolvimento em Inteligência Artificial, Inteligência Coletiva e Ciência de DadosAt: http://www.addlabs.uff.br/workpedia2016/#sobre (**1 punct**)

2.9.18. LUCRAREA:

Scarlatache, F., & Grigoraş, G. (2014, May). Optimal coordination of wind and hydro power plants in power systems. In *2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* (pp. 689-694). IEEE. (**10 puncte**)

a fost citata in lucrarile:

1. Odero, N. A., & Okinda, V. O. (2015). A review of techniques in optimal sizing of hybrid renewable energy systems. *International Journal of Research in Engineering and Technology*, 4(11), 153-163. (**3 puncte**)
2. Okinda, V. O., & Odero, N. A. (2016). Modelling,"Simulation and Optimal Sizing of a Hybrid Wind, Solar PV Power System in Northern Kenya". International Journal of Renewable Energy Research (IJRER), 6(4), 1199-1211. (**5 puncte**)
3. Javaid, M. S., Saeed, N., Al-Awami, A. T., & Khalid, Z. (2016, December). Stochastic versus Robust Optimization of wind-hydro power plant's operational strategy. In Multi-Topic Conference (INMIC), 2016 19th International (pp. 1-5). IEEE. (**2 puncte**)

2.9.19. LUCRAREA:

Grigoras, G., & Scarlatache, F. (2013, May). Energy losses estimation in electrical distribution networks with a decision trees-based algorithm. In *2013 8TH INTERNATIONAL SYMPOSIUM ON ADVANCED*

TOPICS IN ELECTRICAL ENGINEERING (ATEE) (pp. 1-4). IEEE. (**12 puncte**)

a fost citata in lucrarile:

1. Fu, X., Chen, H., Cai, R., & Xuan, P. (2016). Improved LSF method for loss estimation and its application in DG allocation. *IET Generation, Transmission & Distribution*. (**5 puncte**)
2. Sanchez, V. A., Lima, D. A., Ochoa, L. F., & Oliveira, M. E. (2015, June). Statistical Top-Down approach for energy loss estimation in distribution systems. In *PowerTech, 2015 IEEE Eindhoven* (pp. 1-6). IEEE. (**2 puncte**)
3. Wang, S., Dong, P., & Tian, Y. (2017). A Novel Method of Statistical Line Loss Estimation for Distribution Feeders Based on Feeder Cluster and Modified XGBoost. Energies, 10(12), 2067. (**5 puncte**)

2.9.20. LUCRAREA:

Cârţină G, Grigoraş G, Bobric EC *Tehnici de clustering în modelarea fuzzy. Aplicații în energetică,* Casa de editura VENUS, 2005 (**8 puncte**)

a fost citata in lucrarile:

1. G. Chicco, *(2012)*, Overview and performance assessment of the clustering methods for electrical load pattern grouping, Energy, 42(1), 68-80. (**5 puncte**)
2. G. Chicco (2010) Clustering Methods For Electrical Load Pattern Classification, Scientific Bulletin of the Electrical Engineering Faculty, 10(3). (**3 puncte**)

2.9.21. LUCRAREA:

Grigoras, G., & Istrate, M. (2011). An efficient clustering method in evaluation of the electric energy consumption from water hydrophore stations.*International Review on Modelling and Simulations*, *4*(2). (**3 puncte**)

a fost citata in lucrarile:

1. Yan, J., Qi, M., Fang, L., Wang, Y., & Yu, J. (2013). Using Multi-Vector DBSCAN Algorithm to Cluster the Distribution of Urban Water Point.*International Review on Computers and Software (IRECOS)*, *8*(1), 170-173. (**3 puncte**)

2.9.22. LUCRAREA:

Scarlatache, F., & Grigoras, G. (2014, October). Influence of wind power plants on power systems operation. In *Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on* (pp. 1010-1014). IEEE. (**7 punct**)

a fost citata in lucrarile:

1. Ali, S. A., Nawaz, M. F., Bilal, M., Ahmad, F., & Hayat, U. Y. (2015, June). Modeling of wind power plant using MATLAB. In *Power Generation System and Renewable Energy Technologies (PGSRET), 2015* (pp. 1-5). IEEE. (**2 puncte**)
2. Wang, J., Fang, K., Pang, W., & Sun, J. (2017). Wind Power Interval Prediction Based on Improved PSO and BP Neural Network. Journal of Electrical Engineering & Technology, 12(3), 989-995. (**5 puncte**)

2.9.23. LUCRAREA:

Grigoras, G., Barbulescu, C., Cartina, G., & Comanescu, D. (2012). Human Errors Monitoring in Electrical Transmission Networks**,** *Journal of Energy and Power Engineering*, 6(3), 425-428. (**3 puncte**)

a fost citata in lucrarile:

1. Wójcicki, T. (2015), Synergy Model of Artificial Intelligence and Augmented Reality in the Processes of Exploitation of Energy Systems. *Journal of Energy and Power Engineering*, 10, 425-428. (**3 puncte**)

2.9.24. LUCRAREA:

Comanescu, D., Grigoras, G., Cartina, G., & Rotaru, F. (2010, May). Determination of typical load profiles in hydro-power plant by clustering techniques. In *Optimization of Electrical and Electronic Equipment (OPTIM), 2010 12th International Conference on* (pp. 1294-1297). IEEE. (**2 puncte**)

a fost citata in lucrarile:

Surai, J., & Surapatana, V. (2014, March). Load factor improvement in industrial sector using load duration curves. In *Electrical Engineering Congress (iEECON), 2014 International* (pp. 1-4). IEEE. (**2 puncte**)

2.9.25. LUCRAREA:

Kriukov, A., Grigoras, G., Gavrilas, M., Scarlatache, F., & Neagu, B. *(2014) Use of fuzzy techniques in reliability assessment of electric distribution systems*. in Proceedings of IEEE 16th international conference on harmonics and quality of power (ICHQP) (pp. 29–33) (**15 puncte**)

a fost citata in lucrarea:

1. Eduardo Verri Liberadoa, Fernando Pinhabel Marafãob, Marcelo Godoy Simõesc, Wesley Angelino de Souzaa, José Antenor Pomilioa (2015*),* Novel expert system for defining power quality compensators, *Expert Systems with Applications,* 42(7), 3562–3570. (**5 puncte**)
2. Suat Ozdemir, Metin Demirtaș, Serkan Aydin, Energy Distribution System Harmonic Estimation With Fuzzy Estimation Method, International Journal of Scientific Research in Information Systems and Engineering (IJSRISE) Vol. 2, no. 1, April-2016. **(3 puncte)**
3. Andrușcă, M., Adam, M., Baraboi, A., Dragomir, A., & Munteanu, A. (2014, October). Using fuzzy logic for diagnosis of technical condition of power circuit breakers. In Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on (pp. 268-273). IEEE. (**2 puncte**)

4. ShinyPradeepa, A., & Vaithilingam, C. (2017). Voltage Profile Assessment in Power Distribution System Using Generalized Regression Neural Network. Energy Procedia, 117, 209-215. (**5 puncte**)

2.9.26. LUCRAREA

Cârţină Gh, Hua-Song Y., Grigoraş Gh, *Optimal Operation and Planning of Power Systems,* Casa de Editura VENUS, Iasi, 2003: (**3 puncte**)

a fost citata in lucrarea:

1. Bobric, E. C., Irimia, D., Rata, G., & Rata, M. Planning and Management of the Power System Using Dsatools'software, *ANNALS of the ORADEA UNIVERSITY*, Fascicle of Management and Technological Engineering, Volume IX (XIX), 2010, NR1. (**3 puncte**)

2.9.27. LUCRAREA

Fl. Scarlatache, Gh. Grigoras (2012) An Approach Regarding the Placement Of Distributed Generation Sources In Electric Distribution Systems Using Hurwitz Criterion, *Buletinul Institului Politehnic din Iasi*, Seria Electrotehnica, Energetica, Tomul LVIII(LXII), 4, 109 – 117 (**3 puncte**)

a fost citata în lucrarea:

1. Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (**3 puncte**)

2.9.28. LUCRAREA

Grigoras G, Alexandrescu V, Cartina G. (2013), Estimation of Power/Energy Losses in Electric Distribution Systems based on an Efficient Method, *TELKOMNIKA Indonesian Journal of Electrical Engineering*, 11(9), 4854-4860 (**3 puncte**)

a fost citata in lucrarea:

1. Hui Gao, Yingjun Wu The Research Status and Development Trend of Electric Vehicle Power Supply Technology*, TELKOMNIKA Indonesian Journal of Electrical Engineering*, 12(11), 7690-7696. (**3 puncte**)

2.9.29. LUCRAREA

Cartina G, Grigoras G, Bobric EC, Comanescu D (2009), Improved fuzzy load models by clustering techniques in optimal planning of distribution networks. In: PowerTech, 2009 IEEE Bucharest, pp 1, 6, June 28 2009–July 2 2009 (**3 puncte**)

a fost citata in lucrarea:

Hui Gao, Yingjun Wu Management of the Power Distribution Network Reconstruction Process Using Fuzzy Logic, Mirza Saric**,** Jasna Hivziefendic, Advanced Technologies, Systems, and Applications Volume 3 of the series Lecture Notes in Networks and Systems pp 155-172. (**3 puncte**)

2.9.30 LUCRAREA

Vicol, B., Gavrilas, M., Ivanov, O., Neagu, B., & Grigoras, G. (2014, May). Synchrophasor measurement method for overhead line parameters estimation in MV distribution networks. In Harmonics and Quality of Power (ICHQP), 2014 IEEE 16th International Conference on (pp. 862-865). (**3 puncte**)

a fost citata in lucrarea:

1. Zelenskii, E. G., Kononov, Y. G., & Levchenko, I. I. (2016). Identification of the parameters of distribution networks by synchronized current and voltage measurements. Russian Electrical Engineering, 87(7), 363-368. (**3 puncte**)

2.9.31 LUCRAREA

Grigoraş, G., & Neagu, B. C. (2015). Market Clearing Price Forecasting in Deregulated Electricity Markets Using a Fuzzy Approach. Acta Electrotehnica, 56(3). (**2 puncte**)

a fost citata in lucrarea:

1. Dumbrava, V., Lazaroiu, G. C., Teliceanu, M., & Gilca, G. (2017, June). Educational software package for electricity market laboratory. In Modern Power Systems (MPS), 2017 International Conference on (pp. 1-5). IEEE. (**2 puncte**)

2.9.31 LUCRAREA

Banerjee, A., Chattopadhyay, S., Mukhopadhyay, A. K., & Gheorghe, G. (2016, March). A fuzzy-ACO algorithm to enhance reliability optimization through energy harvesting in WSN. In Electrical, Electronics, and Optimization Techniques (ICEEOT), International Conference on (pp. 584-589). IEEE. (**2 puncte**)

a fost citata in lucrarea:

1. Sharma, S., & Kushwah, R. S. (2017, March). Aco based wireless sensor network routing for energy saving. In Inventive Communication and Computational Technologies (ICICCT), 2017 International Conference on (pp. 150-154). IEEE. (**2 puncte**)

2.9.32 LUCRAREA

Banerjee, A., Chattopadhyay, S., Mukhopadhyay, A. K., & Gheorghe, G. (2016, March). A fuzzy-ACO algorithm to enhance reliability optimization through energy harvesting in WSN. In Electrical, Electronics, and Optimization Techniques (ICEEOT), International Conference on (pp. 584-589). IEEE.

a fost citata in lucrarea:

2. Sharma, S., & Kushwah, R. S. (2017, March). Aco based wireless sensor network routing for energy saving. In Inventive Communication and Computational Technologies (ICICCT), 2017 International Conference on (pp. 150-154). IEEE. (**2 puncte**)

2.9.33 LUCRAREA

Neagu, B. C., Grigoraş, G., & Scarlatache, F. (2016, June). The influence of harmonics on power losses in urban distribution networks. In Fundamentals of Electrical Engineering (ISFEE), 2016

	International Symposium on (pp. 1-4). IEEE. (**3 puncte**) a fost citata in lucrarea: 1. BOUM, A., SINGAMONGUE, G., & KOSGA, P. (2017). Modélisation et commande d'un filtre actif série en vue d'une compensation harmonique. Afrique SCIENCE, 13(1), 137-150. (**3 puncte**) 2.9.33 LUCRAREA Grigoraş, G., Neagu, B. C., & Scarlatache, F. (2016, June). Estimation of energy losses in distribution transformers using a fuzzy approach. In Fundamentals of Electrical Engineering (ISFEE), 2016 International Symposium on (pp. 1-6). IEEE. (**3 puncte**) a fost citata in lucrarea: 1. R.Sureshkumar, P.Maithili, THREE PHASE LOAD BALANCING AND ENERGY LOSS REDUCTION IN DISTRIBUTION NETWORK USING LABIEW, International Journal of Pure and Applied Mathematics, Vol. 116 No. 11 2017, 181-189 (**3 puncte**) 2.9.34 LUCRAREA Neagu, B. C., Grigoraş, G., & Scarlatache, F. (2017, March). Outliers discovery from Smart Meters data using a statistical based data mining approach. In Advanced Topics in Electrical Engineering (ATEE), 2017 10th International Symposium on (pp. 555-558). IEEE. (**8 puncte**) a fost citata in lucrarea: 2. Marzal, S., Salas, R., González-Medina, R., Garcerá, G., & Figueres, E. (2017). Current challenges and future trends in the field of communication architectures for microgrids. Renewable and Sustainable Energy Reviews. (**5 puncte**) 3. Ge, M., Bangui, H., & Buhnova, B. (2018). Big Data for Internet of Things: A Survey. Future Generation Computer Systems. (**3 puncte**)	
	2.11. Finalizare teză de doctorat **Realizări:**	**0**
	2.12. Elaborare standarde **Realizări:**	**0**
Total punctaj Criteriu 2		**1633,41**
3. Recunoaşterea naţională şi internaţională (minimum: • 15 puncte prof.; • 10 puncte conf.; • 5 puncte ș. l.)	**3.1**. Profesor invitat pentru prelegeri la univ. de prestigiu **Realizări:**	**0**
	3.2. Membru în academii (Academia Română, Academia de Ştiinţe Tehnice, Academia de Ştiinţe Agricole şi Silvice, Academia Oamenilor de Ştiinţă etc.) **Realizări:**	**0**
	3.3. Doctor Honoris Causa **Realizări:**	**0**
	3.4. Membru în societăţi ştiinţifice şi profesionale **Realizări:** 3.4.1. AGIR (Romania) 3.4.2. SETIS (Romania) 3.4.3. International Association of Engineers (IAENG) 3.4.4. World Academy of Science, Engineering and Technology WASET	**30**
	3.5. Membru în comisii de doctorat **Realizări:**	**0**
	3.6. Membru în colective de redacţie ale revistelor **Realizări:** **Reviste incluse în BDI** 3.6.1. *Journal of Network and Communication Technologies, Canada* (http://www.ccsenet.org/journal/index.php/nct/about/editorialTeam) 3.6.2. Turkish Journal of Engineering and Technology, http://tjetjournal.com/?p=24 3.6.3. American Journal of Electrical Power and Energy Systems, http://www.sciencepublishinggroup.com/journal/editorialboard.aspx?journalid=165 3.6.4. The Research Journal of Artificial Intelligence and Machine Learning (https://uniquepubinternational.com/upi-journals/research-journal-artificial-intelligence-machine-learning-rjaiml/editorial-board-rjaiml/) 3.6.5. Inventi Journals	**50**
	3.7. Membru în comitete ştiinţifice naţionale/ internaţionale/ de program (la congrese, conferinţe etc.) **Realizări:** 3.7.1. The 2017 International Conference on New Energy and Sustainable Development, Xiamen/Amoy, China, 2017 (http://www.nesd2017.org/?op=committee) – Membru TPC; 3.7.2. International Conference on New Energy and Future Energy System, Kunming, Yunnan, China, 2017 (http://www.intergridconf.org/2017/Committee.html) - Membru TPC; 3.7.3 The 3rd International Conference on Renewable Energy Technologies, Klong Luang, Pathumthani, Thailand, 2017 (http://icret.org/com.htm l) - Membru TPC; 3.7.4. The 2017 International Conference on Environmental Science and Sustainable Energy, Suzhou, China, 2017 (http://www.esse2017.org/?op=committee) - Membru TPC; 3.7.5. 2017 International Conference on Computing Intelligence and Information System, Nanjing, China, 2017 (http://www.ciis2017.org/?op=committee) - Membru TPC; 3.7.6. International Conference on Electronics, Computers and Artificial Intelligence (ECAI2017) Targoviste, Romania, 2017 (http://www.ecai.ro) - Membru PC. 3.7.7. Intelligent Systems Conference (IntelliSys), London, UK, 2017 (http://saiconference.com/IntelliSys2017/Committees) - Membru TPC;	**180**

	3.7.8. Science and Information (SAI) Conference, London, UK, 2017, (http://saiconference.com/Computing2017/Committees) - Membru TPC; 3.7.9. 2nd International Conference on Modelling, Simulation and Applied Mathematics(MSAM2017), Bangkok, Thailand, 2017 (http://www.msam2017.org/com.html) TPC; 3.7.10. 2nd International Conference on Electrical, Automation and Mechanical Engineering, Shanghai, China, 2017 (http://www.eame2017.org/com.html) TPC; 3.7.11. FTC 2017 - Future Technologies Conference 2017, Vancouver, BC, Canada (http://saiconference.com/FTC2017/Committees) TPC. 3.7.12. The International Conference on Artificial Intelligence and Computer Engineering (AICE2017), Suzhou, Jiangsu, China, 2017 (http://www.aice2017.org/?op=committee) 3.7.13. 2nd World Congress on Pollution Control & Advances in Environmental Engineering WCPCAEE – 2017, Bangkok , Thailand, 2017, https://bioleagues.com/conference/green_conference/advisory.php . 3.7.14. 2017 International Conference on Electronic and Information Technology (ICEIT2017), Zhuhai, China, 2017, http://www.iceit2017.org/?op=committee. 3.7.15. The International Conference on Energy and Mechanical Engineering (EME2017), Chengdu, China (http://www.eme2017.org/?op=committee) 3.7.16. 3rd Annual International Workshop on Wireless Communication and Network, Beijing, China, 2017 (http://www.iwwcn2017.org/?op=committee) 3.7.17. 5th Annual 2017 International Conference on Geo-Spatial Knowledge and Intelligence (GSKI2017), Chiang Mai, Tailanda, (http://www.grmse2017.org/?op=committee) 3.7.18. 4th Annual Conf. on Computational Science & Computational Intelligence (CSCI'17), 2017 | Las Vegas, Nevada, USA (https://americancse.org/events/csci2017/committees)	
	3.8. Membru în echipe de expertizare / evaluare a cercetării ştiinţifice (proiecte CNCS, PNCDI II, FP7, Phare; centre de cercetare etc.) **Realizări:** **Evaluator ARUT – 3 granturi evaluate (15 puncte)**	**15**
	3.9. Membru în echipe de expertizare (evaluare) a procesului educaţional (ARACIS, EUA etc.) **Realizări:**	**0**
	3.10. Membru în consilii naţionale de specialitate **Realizări:**	**0**
	3.11. Organizator de manifestări ştiinţifice naţionale / internaţionale / sesiuni invitate **Realizări:** the 2017 2nd International Conference on Software, Multimedia and Communication Engineering, Shanghai, China, 2017 (http://www.smce2017.org/com.html) – General Chair;	**15**
	3.12. Referent ştiinţific / expert naţional şi internaţional (pentru reviste, congrese etc.) **Realizări:** **Jurnale Internationale ISI (530 puncte)** 3.12.1. *Energy* - 25 recenzii (**250 puncte**) 1. Forecasting mid-long term electric energy consumption through bagging ARIMA and exponential smoothing methods (EGY-D-17-02276R1) 2. Research and application of a hybrid forecasting framework based on multi-objective optimization for electrical power system (EGY-D-17-01881R2) 3. Decentralized Optimal Multi-Energy Flow of Large-Scale Integrated Energy Systems in a Carbon Trading Market (EGY-D-17-04528) 4. Estimation of transport energy demand using artificial neural networks (EGY-D-17-04013) 5. Fuzzy decision based energy dispatch in offshore industrial microgrid with desalination process and multi-type DGs (EGY-D-17-04259) 6. Forecasting mid-long term electric energy consumption through bagging ARIMA and exponential smoothing methods (EGY-D-17-02276) 7. An Effectively Adaptive Selective Cuckoo Search Algorithm for Solving Three Complicated Short-Term Hydrothermal Scheduling Problems (EGY-D-17-01116) 8. A Two-Stage Robust Investment Model for a Risk-averse Price-maker Power Producer (EGY-D-17-00694R1) 9. Subsampled support vector regression ensemble for electric load forecasting (EGY-D-17-02675) 10. An objective-based scenario selection method for transmission network expansion planning with multivariate stochasticity in load and renewable energy sources (EGY-D-17-00289R1) 11. Energy harvesting with the piezoelectric material integrated shoe (EGY-D-16-04949R2) 12. Energy gathering performance of micro/nanoscale circular energy harvesters based on flexoelectric effect (EGY-D-17-01479R1) 13. A rolling-horizon optimization algorithm for the long term operational scheduling of cogeneration systems (EGY-D-17-01249) 14. A randomized-algorithm-based decomposition-ensemble learning methodology for energy price forecasting (EGY-D-17-01891) 15. Energy gathering performance of micro/nanoscale circular energy harvesters based on flexoelectric effect (EGY-D-17-01479) 16. Energy harvesting with the piezoelectric material integrated shoe (EGY-D-16-04949R1) 17. Calculating the energy rebound effect from the perspective of technological progress—a case study on China's transport sector (EGY-D-16-03986) 18. Hourly optimization and sizing of district heating systems considering building refurbishment - Case study for the city of Zagreb (EGY-D-16-05453R1) 19. Optimal short-term generation scheduling of hydrothermal systems by implementation of real-coded genetic algorithm based on improved Mühlenbein mutation (EGY-D-16-04723R1) 20. A Two-Stage Robust Investment Model for a Risk-averse Price-maker Power Producer (EGY-D-17-00694) 21. An objective-based scenario selection method for transmission network expansion planning with	**734**

multivariate stochasticity in load and renewable energy sources (EGY-D-17-00289)
22. Data Size Requirement for Forecasting Daily Crude Oil Price with Neural Networks (EGY-D-17-00768)
23. Scenario-based approach for design and comparatively analysis of conventional and renewable energy systems (EGY-D-15-02944R2)
24. Hourly optimization and sizing of district heating systems considering building refurbishment - Case study for the city of Zagreb (EGY-D-16-05453)
25. Load Forecasting under Changing Climatic Conditions for the City of Sydney, Australia (EGY-D-14-03377R2)

3.12.2. *Journal of Computational Science* – 2 recenzii (**20 puncte**)
1. Process monitoring using PCA-based GLR methods: A comparative study (JOCS_2017_1040)
2. Salient Region Detection and Object Segmentation in Color Images Using Dynamic Mode Decomposition (JOCS-D-17-00010)

3.12.3. *Energies* – 21 recenzii (**210 puncte**)
1. Smoothing Control of Wind Power Fluctuations from Energy Storage System of Electric Vehicles (energies-175338) - 23 Februarie 2017
2. Smoothing Control of Wind Power Fluctuations from Energy Storage System of Electric Vehicles (energies-175338) - 29 Aprilie 2017
3. Optimal Energy Scheduling and Transaction Mechanism for Multiple Microgrids (energies-183016) - 12 Martie 2017
4. Optimal Energy Scheduling and Transaction Mechanism for Multiple Microgrids (energies-183016) - 12 Aprilie 2017
5. Coordinated Control of Multi-type Energy Storages for Wind Power Fluctuations Suppression (energies-187512)
6. Economic optimization of component sizing for residential battery storage systems (energies-198289) – 22 mai 2017
7. Economic optimization of component sizing for residential battery storage systems (energies-198289) – 9 iunie 2017
8. Coordinated Control of Multi-Type Energy Storages for Wind Power Fluctuations Suppression (energies-187512R1) – 1 iulie 2017
9. Coordinated Control of Multi-Type Energy Storages for Wind Power Fluctuations Suppression (energies-187512R2) – 27 iulie 2017
10. Smoothing Control of Wind Power Fluctuations from Energy Storage System of Electric Vehicles (energies-210494)
11. Smoothing Control of Wind Power Fluctuations from Energy Storage System of Electric Vehicles (energies-210494R1)
12. Adaptive Under-Frequency Load Shedding Scheme in System integrated with High Wind Power Penetration: Impacts and Improvements (energies-217470) - 6 August 2017
13. Adaptive Under-Frequency Load Shedding Scheme in System integrated with High Wind Power Penetration: Impacts and Improvements (energies-217470R1) - 30 August 2017
14. Application of a Simplified Thermal-Electric Model of a Sodium-Nickel Chloride Battery Energy Storage System to a Real Case Residential Prosumer (energies-219120) – 24 August 2017
15. Application of a Simplified Thermal-Electric Model of a Sodium-Nickel Chloride Battery Energy Storage System to a Real Case Residential Prosumer (energies-219120R1) – 18 Septembrie 2017
16. Load shedding control strategy based on transient instability evaluation of power system using Artificial Neural Network and Analytic Hierarchy Process algorithm (energies-227122)
17. Dynamic Equivalent Modeling of Microgrid Based on Characteristic Model and Measured Data (energies-231436)
18. Optimized design method for storage systems in photovoltaic plants with delivery limitation (energies-234761) – 17 Octombrie 2017
19. Optimized design method for storage systems in photovoltaic plants with delivery limitation (energies-234761R1) – 19 Noiembrie 2017
20. Optimal Power Assignment of Energy Storage System to Improve the Energy Storage Efficiency for Frequency Regulation (energies-246836)
21. Fault tolerant control for flexible group battery energy storage system based on cascaded multilevel converters (energies-246327)

3.12.3. *Transactions on Sustainable Computing* – 1 recenzie (**10 puncte**)
1. Application-Aware Data Concentration for Advanced Metering Infrastructures (TSUSC-2017-10-0113)

3.12.4. *IEEE Transactions on Industrial Electronics* – 1 recenzie (**10 puncte**)
1. An Open Source Framework for Smart Meters: Data Communication and Security Traffic Analysis (17-TIE-3154)

3.12.5. *IET The Journal of Engineering* – 1 recenzie (**10 puncte**)
1. Statistical Data Minning approach considering outlier detection for photovoltaic plant (JOE-2017-0232)

3.12.6. *Symmetry* – 2 recenzii (**20 puncte**)
1. A Hybrid Fuzzy DEA/AHP Methodology for Ranking Units in a Fuzzy Environment (symmetry-234732) (25 October 2017)
2. A Hybrid Fuzzy DEA/AHP Methodology for Ranking Units in a Fuzzy Environment (symmetry-234732R1) - (5 November 2017)

Jurnale Internationale BDI (65 puncte)

3.12.6. *International Journal of Industrial Engineering: Theory, Applications and Practice* – 4 recenzii (**20 puncte**)

1. Two-Stage Production Planning Model Using Integrated Mathematical Modelling and Mathematical Programming (3425-9903-2-RV)
2. Optimization Simulation of the Lpcvd Equipment Intergrated Production System in the Amorphous Silicon Thin-Film Solar Cell Production Line-A Case Study (2504-7614-1-RV)
3. A Simulation Case Study on Supply Chain Management of a Construction Firm Adopting Cloud Computing and RFID (2178-6723-1-RV)
4. Investigation on the Comprehensive Control Method of High-Order Local Shape Defects in Cold Rolled Wide Strip (2109-6553-2-RV)

3.12.7. *WSEAS Transactions on Power Systems* – 5 recenzii (**25 puncte**)

1. Optimization of Model Structure of Induction Motor Control System (5916-555)
2. Comparative Study of MPPT Nonlinear Controller, Using Boost Converter for PV Modules (5816-545
3. Data Warehouse Applied to SCADA Historical Data in Electrical Power Systems (5916-554)
4. A Cuckoo Search Algorithm Applied to the Electric Grid Interdiction Problem (5916-556)
5. An improved redundant observability model for optimal placement of PMUs with different channel capacities (5916-565)

3.12.8. *Engineering Science and Technology, an International Journal* (https://www.journals.elsevier.com/engineering-science-and-technology-an-international-journal) – 1 recenzie (**5 puncte**)

1. Hybrid fuzzy charged system search algorithm based state estimation in distribution networks (JESTCH_2017_111)

3.12.9. *The Scientific World Journal*, https://www.hindawi.com/journals/tswj/ai/ - 1 recenzie (**5 puncte**)

1. A Pragmatic Approach for Increasing Energy Efficiency in Industrial Electrical Distribution through Los Reduction (473819.v1)

3.12.20. Journal of Scientific Research and Reports (http://www.sciencedomain.org/journal/22/abstracting indexing) – 2 recenzii (**10 puncte**)

1. Prepaid metering empowerment for Need Based Energy Management System (JSRR_36344) (6 septembrie 2017)
2. Prepaid metering empowerment for Need Based Energy Management System (JSRR_36344R1) (10 noiembrie 2017)

Conferinte Internationale – BDI (129 puncte)

3.12.8. 2017 *The International Conference on Artificial Intelligent and Computer Engineering, Suzhou, China (ITM Web of Conferences – EBSCO)* (http://www.aice2017.org/) – 8 recenzii (**24 puncte**)

1. Design and implementation of energy saving brake system (ID A150)
2. Double HEVC Compression Detection with Different Bitrates Based on Co-occurrence Matrix of PU Types and DCT Coefficients (ID A218)
3. Pattern Identification of Subthalamic Local Field Potentials in Parkinson's Disease (ID A219)
4. Failure Analysis and Evaluation of Reinforced Computer Equipment (IS A220)
5. Design and Achievement of User Interface Automation Testing of Linux Based on Element Tree of DogTail (ID A221)
6. On Construction of Good Quaternary Additive Codes (ID A224)
7. Automated Brunnstrom Assessment for Home Rehabilitation Based on GRNN Model (ID A225)
8. On the Construction of LCD Codes over F5 (ID A227)

3.12.9. *The 2017 International Conference on Computing Intelligence and Information System, Nanjing, China, (www.ciis2017.org)* - 1 recenzie (**3 puncte**)

1. Research on Access Control in Cloud Computing Environment (CIIS1095)

3.12.10. *2017 International Conference on Computer, Communications and Electronics (Comptelix, Jaipur, India (IEEE Xplore) (http://irisworld.org/wp/international-conference/comptelix-2017)* – 3 recenz (**9 puncte**)

1. Removel of Eye Blink Artefacts from EEG Signal using Block based Data Normalized LMS Adaptive Filter
2. Design a Microstrip Patch Antenna using Defected Ground Structure for Milimeter Wawe
3. A Novel Compact Polarization Independent Triple Band Reject Frequency Selective Surface for th Security of Wireless Communication

3.12.11. *The Second International Conference on Energy Engineering and Environmental Protection, Sanya, China, 2017 (Compendex) (http://www.iceeep.org/)* – 2 recenzii (**6 puncte**)

1. Active Distribution Network Planning Considering Linearized System Loss (EEEP15969)
2. Study on Reasonable Abandonment Rate of Large Scale Renewable Energy (EEEP18835)

3.12.11. *The 2017 International Conference on Environmental Science and Sustainable Energy, Suzhou China (Compendex) (http://www.esse2017.org)* – 1 recenzie (**3 puncte**)

1. Research on the Performance Evaluation of Coal Listed Companies in China under the Economic Downturn (ESSE 146)

3.12.12. *Future Technologies Conference, Vancouver, BC, Canada, 2017*

http://saiconference.com/Conferences/FTC2017) (IEEE Xplore) – 4 recenzii (**12 puncte**)

1. Gray Wolf Optimization based Clustering Algorithm for Vehicular Ad-Hoc Networks (ID 144)
2. Evolution in Groups: A Deeper Look at Synaptic Cluster Driven Evolution of Deep Neural Networks (ID 220)
3. Exploating Chaos for Fun and Profit (ID 260)
4. Fault Detection of Switches in Multilevel Inverter Using Wavelet and Neural Network (ID 436)

3.12.13. *The 2nd International Conference on Electronic and Information Technology, 2017, Zhuhai, China (Compendex)* (http://www.iceit2017.org/) – 1 recenzie (**3 puncte**)

1. Real Time Monitoring and Analysis of Operation Status Based on Stream Computing and Memory Computing Technology (ID 93)

3.12.14. SAI Intelligent Systems Conference, Londra, UK, 2017 (http://www.saiconference.com/Conferences/IntelliSys2017) – 8 recenzii (**24 puncte**)

1. Neuro-Fuzzy Based Fault Diagnostic in a Power Distribution Network (ID 1)
2. Making Smart and Accesible Cities by Modeling the Exploit Data using Fuzzy Logic (ID 7)
3. Estabilishing a New Algorithm to Detecting Resources in Sensor Networks (ID 12)
4. LUCID: Author Name Disambiguation using Graph Structural Clustering
5. Bio-Inspired meta-learing for active exploration during non-stationary multi-armed bandit tasks (ID 192)
6. A hibrid moth-flame optimization and extreme learning machine for stook market prediction (ID 240)
7. EOD-AMLP: A framework to predict Diabetic using Outlier Detection and Automatic Multi Layer Perceptorn (ID 277)
8. Head Pogo-free Eye Gaze Prediction using Multi-coli Sparce Dictionary Learning (ID 368)

3.12.10. *11th International Conference on Electromechanical an Power Systems SIELMEN 2017, Chisinau, Rep. Moldova*, (http://www.sielmen.tuiasi.ro/2017) – 5 recenzii (**15 puncte**)

1. Latvian EPS Stability's analysis taking into account new strategy of development until 2025 (ID 21)
2. Alegerea materialelor electrozilor pentru reducerea consumului de energie electrică (ID 54)
3. Analysis of the state and possibilities for increasing the efficiency of the district heating system in Chisinau (ID 72)
4. Analysis of the actual situation regarding the methods of processing the neutral in the 6-35 kV networks (ID 543)
5. Methodical approach to weak buses and ties detection in a power system (ID 571)

3.12.11. *2nd International Conference on Software, Multimedia and Communication Engineering (SMCE2017), Shanghai, China.* (http://www.smce2017.org/) – 2 recenzii (**6 puncte**)

1. Aircraft Detection in Remote Sensing Images via CNN Multi-scale Feature Representation (SMCE1575)
2. A Study on Chinese Cognition of Bilinguals Based on Eye Movement Technique (SMCE1580)

3.12.11. *The 7th International Conference on Electronics, Communications and Networks* (CECNet 2017), National Dong Hwa University, Hualien, Taiwan, 2017 (http://www.cecnetconf.org/) – 2 recenzii (**6 puncte**)

1. City Cloud Brain, a New Architecture of Smart City Based on the Internet Cloud Brain (CNT2272 (2 octombrie 2017)
2. City Cloud Brain, a New Architecture of Smart City Based on the Internet Cloud Brain (CNT2272R1) (19 octombrie 2017)

3.12.11. *Power and Energy Systems (POES '17) Conference*, Roma, Italia, 2017, (http://wseas.org/cms.action?id=15645) – 1 recenzie (**3 puncte**)

1. An Intelligent Voltage Control System for Large scale Power System (75205-103)

3.12.12. *The International Conference on Energy and Mechanical Engineering* (EME2017) (http://www.eme2017.org) – 2 recenzii (**6 puncte**)

1. Design and simulation of Inverter based on Space vector pulse width modulation (E2459)
2. The Evaluation Method of the Lightning Strike on Transmission Lines Aiming at Power Grid Reliability (E2465)

3.12.13. *3rd Annual International Workshop on Wireless Communication and Network (IWWCN2017),* Beijing, China, http://www.iwwcn2017.org – 3 recenzii (**9 puncte**)

1. Design and implementation of wireless invoice intelligent terminal based on ARM (N120)
2. Execution Time Forecasting of Automatic Test Case Generation Based on Genetic Algorithm an BP Neural Network (N122)
3. Combating Malicious Eavesdropper in Wireless Full-Duplex Relay Networks: Cooperative Jamming and Power Allocation (N123)

Conferinte Internationale – ISI (10 puncte)

3.12.11. *9th International Conference on Electronics, Computers and Artificial Intelligence, Ploiesti, Romania, 2017* (http://www.ecai.ro) – 1 recenzie (**5 puncte**)

1. Case Studies of Energy Efficiency in Wastewater Treatment Plants (ID 95)

3.12.12. *International Conference on Optimization Of Electrical And Electronic Equipment (OPTIM) & Aegean Conference On Electrical Machines And Power Electronics (ACEMP),* Brasov, Romania, 2017 IEEE Xplore (http://www.info-optim.ro/optim_2017.php)
1 recenzie (**5 puncte**)

	1. Cyber Security for Critical Infrastructure SCADA Systems (TMP-8700-000019)	
	3.13. Membru în comisii de concurs pentru posturi didactice universitare **Realizări:**	**0**
	3.14. Membru în jurii, comisii, concursuri profesionale **Realizări:**	**0**
	3.15. Cercetător invitat pentru activităţi de cercetare în universităţi/firme de prestigiu	**0**
	3.16. Cadru didactic invitat în programe ERASMUS (prelegeri)	**0**
	3.17. Cadru didactic care gestioneaza acorduri bilaterale ERASMUS	**0**
	3.18. Premii	**0**
Total punctaj Criteriu 3		**1024**
4. Activitatea cu studenţii*) (minimum: • 10 puncte prof.; • 7 puncte conf.; • 5 puncte ș.l.)	**4.1.** Conducere cercuri ştiinţifice studenţeşti **Realizări:** 4.1.1. **2 lucrari**: Impactul contorizarii inteligente asupra exploatarii retelelor electrice de distributie Popa Andrei, anul IV, ISE Analiza variatiilor lente de tensiune din retelele electrice de distributie folosind metode statistice Ghilasa Bogdan, anul IV, ME	**6**
	4.2. Pregătire pentru concursuri profesionale (pentru fazele naţională şi internaţională) **Realizări:**	**0**
	4.3. Conducere lucrări de absolvire[2)], licenţă (diplomă), disertaţie, doctorat (inclusiv cotutelă, membri în echipa de îndrumare) **Realizări:** 4.3.1. 2 *lucrari de disertatie* (**15 puncte**) Garbea Razvan, MSE Modan Emanuel, MSE Cicanel Marius MSE 4.3.2. *5 lucrari de licenta* **(15 puncte)** Drogeanu Elena IM; Popa Andrei ISE; Ghilasa Bogdan Ionut ME; Pruteanu Gabriel IM Pocovnicu Ciprian ME	**30**
	4.4. Îndrumare ani de studii **Realizări:** 4.4.1. Anul IV, 6405 – Managementul energiei	**5**
	4.5. Organizarea de excursii de studii, prezentarea ofertei educationale a universitătii în licee (**35 puncte**) (**7 licee -** 4 Roman, 1 Iasi, 1 Tg. Frumos, 1 Podu Iloie)	**35**
Total punctaj Criteriu 4		**76**
5. Activitatea în comunitatea academică (minimum: • 15 puncte prof.; • 10 puncte conf.); • 5 puncte ș.l.;	**5.1.** Participare la simpozioane, mese rotunde etc. **Realizări:** Targul de carte LIBREX 2017, 10 – 14 mai 2017, Iasi. Conferință internațională despre securitate „Provocari de securitate in sud-estul Europei”, 3 noiembrie 2017, Iasi.	**2**
	5.2. Activitate în comisii **Realizări:** 5.2.1. Membru al consiliului facultăţii (**5 puncte**) 5.2.2. Responsabil comisia de orar pe facultate (**5 puncte**) 5.2.3 Comisie promovare facultate (**5 puncte**) 5.2.5. Membru al comisia cercuri stiintifice (Comisia 1 Energetica) (**3 puncte**) 5.2.6. Membru în Comisia pentru soluţionarea contestaţiilor la proba de evaluare a examenului de licenţă (**3 puncte**) 5.2.7. Membru în Comisia de avizare a Activității Științifice pe facultate (**5 puncte**) 5.2.8. Membru în Comisiile de finalizare a studiilor de master ”Management, energie, mediu” și ”Managementul sistemelor de energie” (**6 puncte**) 5.2.9. Membru in Comisia de Inventariere pe facultate (**5 puncte**)	**37**
	5.3. Coordonare programe de studii de licență/ masterat/ postuniversitare de formare continuă **Realizări: ISE licenta**	**5**
Total punctaj Criteriu 5		**44**
Total punctaj Criterii 1-5		**2885,09**
6. Evaluarea de către Directorul de Departament	**Justificări:** • **.....;** • **.....;** • **.....;** • **.....;** • **.....**	**50**
Total general		**2935,09**

Data,

UNIVERSITATEA TEHNICĂ „GHEORGHE ASACHI” DIN IAŞI

FACULTATEA DE Inginerie Electrică, Energetică şi Informatică Aplicată

DEPARTAMENTUL de Energetică

FIȘA DE AUTOEVALUARE
Și DE EVALUARE DE CĂTRE DIRECTORUL DE DEPARTAMENT-2018

(pentru activitatea în departamentul de încadrare conform contractului de muncă)

Numele şi prenumele cadrului didactic evaluat	**Grigoras Gheorghe**
Funcţia didactică	**Conf. dr. ing.**

Criteriul de evaluare	Indicatori de performanţă (cu explicitarea modului de calcul a punctajului pentru fiecare realizare, conf. nexa 1)	Punctaj
1. Activitate didactică* (minimum: • 30 puncte prof.; • 15 puncte conf.; • 10 puncte ș.l.; • 5 puncte as.)	**1.1.** Predare discipline/ cursuri noi în planul de învăţământ, pe direcţii neelaborate anterior	**-**
	1.2. Elaborare manuale universitare (inclusiv în sistem e-learning) **Realizări:** 1.2.1. Cursuri (**37.5 puncte**) **Gh. Grigoraş,** Tehnici de optimizare în energetică, format electronic, 175 pagini, 2017 (**17.5 puncte**) **Gh. Grigoraş,** Tehnici moderne de conducere în sistemele electroenergetice, format electronic, 200 pagini, 2018 (**20 puncte**) 1.2.2. Indrumar laborator (**13,47 puncte**) **Gh. Grigoras**, Fl. Scarlatache, Metode numerice. Aplicatii practice, Editura PIM, 2014, **173 pag.**, ISBN: 978-606-13-2143-8. (**6.05 puncte**) **Gh. Grigoras**, Optimizari in sistemele energetice, Editura PIM, 2017, **106 pag.**, ISBN: 978-606-13-4053-8. (**7,42 puncte**)	**50,97**
	1.3. Elaborare suporturi de cursuri, seminarii, laboratoare, proiecte **Realizări:** 1.3.1. Gh. Grigoraş, Strategii și decizii optimale în energetică, Suport de curs (prezentari PowerPoint), 265 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html – 2017 (**7,95 puncte**) 1.3.2. Gh. Grigoraş, Modelarea și optimizarea proceselor energetice industriale, Suport de curs (prezentari PowerPoint), 201 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html. – 2017 **6,03 puncte**) 1.3.3. Gh. Grigoraş, Sisteme de conducere, supraveghere și achiziții de date, Suport de curs (prezentari PowerPoint), 198 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html. – 2017 (**5,94 puncte**) 1.3.4. Gh. Grigoraş, Tehnici modene de conducere, Suport de curs (prezentari PowerPoint), 162 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html – 2017 (**4,86 puncte**) 1.3.5. Gh. Grigoraş, Modelarea și optimizarea proceselor energetice industriale, Suport de laborator (referate de laborator), 97 pag. (http://www.gheorghe-grigoras.ieeia.tuiasi.ro/aplicatii_sdoe.html. - 2017 (**2,91 puncte**) 1.3.6. Gh. Grigoraş, Modelarea și optimizarea proceselor energetice industriale, Suport de laborator (referate de laborator), 39 pag. (http://www.gheorghe-grigoras.ieeia.tuiasi.ro/aplicatii_mopei.html. - 2017 (**1,17 puncte**)	**28,86**
	1.4. Elaborare manuale şi alte materiale pentru învăţământul preuniversitar **Realizări:**	**0**
	1.5. Modernizare tehnologie didactică **Realizări:** **Dotare cu aparatură, echipamente, materiale, material curricular auxiliar, în scop didactic** **Laborator Tehnici moderne de conducere – master MSE. Programe soft (25 puncte)** Considerarea incertitudinii in evaluarea economica a variantelor de dezvoltare a unei retele electrice (**Gh. Grigoras)** 2016 Evaluarea pierderilor de energie in transformatoarele electrice MT/JT folosind tehnici fuzzy (**Gh. Grigoras)** 2017 Estimarea consumului de energie electrica la consumatorii industriali folosind agregarea sarcinii	**40**

	si sisteme expert (**Gh. Grigoras)** 2018 Estimarea consumului de energie electrica la consumatorii industriali folosind clustering (**Gh. Grigoras)** 2018 Managementul și controlul inteligent al fluxurilor purtătorilor de energie la consumatori (**Gh. Grigoras)** 2018 **Laborator Strategii si decizii optimale in energetica – licenta MSE. Programe soft (15 puncte)** Gheorghe Grigoras, Aplatizarea curbelor de sarcină la consumatorii industriali folosind programarea liniară in Matlab, (**Gh. Grigoras)** 2017 Criteriul abaterii medii pătratice în aprecierea variaţiilor lente de tensiune din rețelele electrice, (**Gh. Grigoras)** 2017 Strategii privind economia de energie în rețelele electrice (**Gh. Grigoras)** 2017	
Total punctaj Criteriu 1		**119.83**
2. Cercetarea ştiinţifică (minimum: • 150 puncte prof.; • 100 puncte conf.; • 60 puncte ș.l.; • 30 puncte asist.)	**2.1.** Elaborare cărţi/ monografii/ tratate **Realizări:** 2.1.1. **Gh. Grigoraş**, Fl. Scarlatache, B.C. Neagu, Clustering in Power Systems. Applications, Ed. Lambert Academic Publishing, Germany, 2016, ISBN: 978-3-8473-2793-6 (**210 pag. Grigoras**) – (**105 puncte**) 2.1.2. **Gh. Grigoraş**, Electrical Energy Consumption Forecasting to Improve Energy Efficiency of Water Distribution Systems, Capitol in cartea Energy Harvesting and Energy Efficiency. Technology, Methods, and Applications, Editori: Nicu Bizon, Naser Mahdavi Tabatabaei, Fred Blaabjerg, Erol Kurt, Springer International Publishing, Switzerland, pp. 599 – 628, 2017, ISBN: 978-3-319-49874-4. (**30 pag**.) – (**15 puncte**) 2.1.3. Fl. Scarlatache, **Gh. Grigoraş**, Impact of the Distributed Generation on Optimal Operation and Planning of the Electrical Networks, capitol in cartea Distributed Generation. Systems, Performance and Emerging Technologies, Editor Tao, Lin Nova Science Publishers, USA, pp. 127 – 160, 2017, ISBN: 978 -1 – 53611-074-6. (**34 pag.**) – (**8.5 puncte**) 2.1.4. B. C. Neagu, **Gh. Grigoraş**, The Assessment of Power Quality in Electric Distribution Systems from Romania, capitol in cartea Advances in Energy Research, Editor Morena J. Acosta, Nova Science Publishers, USA, pp. 57 – 211, 2017, ISBN: 978-1-53612-699-0. (**55 pag.) – (13.75 puncte)** 2.1.5. **Gh. Grigoraş**, Impact of smart meter implementation on saving electricity in distribution networks in Romania, Capitol in cartea Application of Smart Grid Technologies. Case Studies in Saving Electricity in Different Parts of the World, Editori: Lisa Ann Lamont, Ali Sayigh, , Academic Press (Elsevier), Londra, UK, pp. 313 – 346, 2017, ISBN: 978-3-319-49874-4. (**34 pag**.) – (**17 puncte**) WOS:000459379600010	**159.25**
	2.2. Articole publicate în reviste de specialitate **Realizări:** **a. Reviste cotate ISI (223.86 puncte)** 2.2.1. **Gh. Grigoraş**, Fl. Scarlatache, An assessment of the renewable energy potential using a clustering based data mining method. Case study in Romania, Energy, Volume 81, pp. 416–429, 2015, ISSN: 0360-5442 (FI = 4,968), WOS:000351248200041- (**114,36 puncte**) 2.2.2. **Gh. Grigoraş**, E.-C. Bobric, Clustering Based Approach for Customers' Classification From Electrical Distribution Systems, U.P.B. Sci. Bulletin, Series C, Vol. 77, Nr. 2, pp. 219-226, 2015, ISSN : 2286-3540, (fara FI) WOS:000421799900018, (**15 puncte**) 2.2.3. A. Banerjee, S. Chattopadhyay, **Gh. Grigoraş**, M. Gavrilaș, Minimization of reliability indices and cost of power distribution systems in urban areas using an efficient hybrid meta-heuristic algorithm, Soft Computing, On-line: Octombrie 2017, DOI 10.1007/s00500-017-2846-6, ISSN: 1432-7643, (FI = 2.367), (**31,17 puncte**) 2.2.4. **Gh. Grigoraş**, Electrical Energy Consumption Forecasting to Improve Energy Efficiency of Water Distribution Systems, Energy Harvesting and Energy Efficiency. Technology, Methods, and Applications, Springer International Publishing, pp. 599 – 628, 2017, ISBN: 978-3-319-49874-4, WOS:000412159000022 (**fara FI**) (**30 puncte**) 2.2.5. V. Postolaty, V. Berzan, E. Bykova,V. Bosneaga., V. Suslov, I. Ermurachi, **Gh. Grigoras**, M. Gavrilas, M. Istrate, Estimation of Power Exchange through 110 kV OverheadPower Lines at the Interface of the Romanian and Moldovan Power Systems, PROBLEMELE ENERGETICII REGIONALE, vol 2 (37), pp. 46 – 61, 2018, Accession Number: WOS:000441795300006 (**fara FI**) (**3.33 puncte**) 2.2.6. **Gh. Grigoraş**, Impact of smart meter implementation on saving electricity in distribution networks in Romania, Application of Smart Grid Technologies. Case Studies in Saving Electricity in Different Parts of the World, pp. 313 – 346, 2017, ISBN: 978-3-319-49874-4, WOS:000459379600010, (**fara FI**) (**30 puncte**) **b. Reviste cotate BDI (42 puncte)** 2.2.7. B. C. Neagu, **Gh. Grigoraş**, The Assessment of Power Quality in Electric Distribution Systems from Romania, Advances in Energy Research, vol. 28, pp. 57 – 211, 2017, ISBN: 978-1-53612-699-0. (**15 puncte**) 2.2.8. M. Gavrilaș, **Gh. Grigoraș**, M. Cazacu, C.O Carp, I. Andrei, Reducing Active Energy Losses in Low Voltage Distribution Grids, Journal of Sustainable Energy, Vol. 8, No. 3, pp. 113 – 120, ISSN: 2067-5534, 2017 (**6 puncte**) 2.2.9. Fl. Scarlatache, **Gh Grigoraş**, Impact of the Distributed Generation on Optimal Operation and Planning of the Electrical Networks, Distributed Generation. Systems, Performance and Emerging Technologies, Lin Nova Science Publishers, USA, pp. 127 – 160, 2017, ISBN: 978 -1 – 53611-074-6. (**15 puncte**) 2.2.10. **Gh. Grigoraş**, Mihai Gavrilaș, Florina Scarlatache, Mihaela Cazacu, Mihaela Cosarca, Assessing Energy Losses in Unbalanced Low Voltage Electric Distribution Networks, Energetica, Vol. 64, Nr. 2, pp. 53 – 59, 2016, ISSN: 1453-2360 (Index Copernicus) - cod CNCSIS : 512. (**6 puncte**)	**265.86**
	2.3. Conferinţe invitate, lucrări comunicate la manifestări științifice **Realizări:**	**0**
	2.4. Lucrări publicate în volumele conferinţelor **Realizări:** **a. Volume indexate ISI (167.18 puncte)**	

	2.4.1. **Gh. Grigoraş**, Nicu Bizon, Florentina Enescu, Jose Manuel Lopez Guede, Guadalupe Flores Salado, Raymond Brennan, Connie O'Driscoll, Mergersa Dinka, Mohamed Gar Alalm, ICT based Smart Management Solution to Realize Water and Energy Savings through Energy Efficiency Measures in Water Distribution Systems, 10th Edition Electronics, Computers and Artificial Intelligence (ECAI 2018), 28 June - 30 June, 2018, Iasi, Romania, WOS:000467734100082 (**5.55 puncte**) 2.4.2. B.C. Neagu, **Gh. Grigoras**, Fl. Scarlatache, Influence of Outliers on Transformer Power Losses Estimation Using a Statistical Based Data Mining Approach, 10th Edition Electronics, Computers and Artificial Intelligence (ECAI 2018), 28 June -30 June, 2018, Iasi, Romania WOS:000467734100072 (**16.66 puncte**) 2.4.3. **Gh. Grigoraş**, B.C. Neagu, Fl. Scarlatache, Influence of Sampling Size in Profiling Process of Electricity Consumption at Small and Medium Enterprises, 10th International Conference and Exposition on Electrical and Power Engineering (EPE2018), Iasi, Romania, pp. 743 – 748, 2018 (**16.66 puncte**) 2.4.3. **Gh. Grigoraş**, Fl. Scarlatache, B.C. Neagu, Analysis of energy saving solutions based on replacement of distribution transformers, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, pp. 66 – 71, 2017, WOS:000426909600009 (**16.66 puncte**) 2.4.2. **Gh. Grigoraş**, Fl. Scarlatache, D. Comanescu, B.C. Neagu, Expert system for optimal power allocation in hydropower dispatchable units, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, pp. 605 – 610, 2017, WOS:000426909600091 (**12,5 puncte**) 2.4.3. **Gh. Grigoras**, B.C. Neagu, Fl. Scarlatache, R. Ciobanu, Identification of pilot nodes for secondary voltage control using K-means clustering algorithm, IEEE 26th International Symposium on Industrial Electronics (ISIE), Edinburgh, United Kingdom, pp. 106-110, 2017, WOS:000426794000015 (**12,5 puncte**) 2.4.4. B.C. Neagu, **Gh. Grigoraş**, Fl. Scarlatache, C. Schreiner, R. Ciobanu, Patterns discovery of load curves characteristics using clustering based data mining, 2017 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 83 – 87, 2017, WOS:000406491800013 (**10 puncte**) 2.4.5. Fl. Scarlatache, **Gh. Grigoraş**, B.C. Neagu, C. Schreiner, R. Ciobanu, Influence of hybrid energy systems on micro-grids control, 2017 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 313 – 317, 2017, WOS:000406491800050 (**10 puncte**) 2.4.6. B.C. Neagu, **Gh. Grigoraş**, Fl.Scarlatache, Effects of outliers on calculation of load profile factors, 2017 International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2017, WOS:000428462600009 (**16,66 puncte**) 2.4.7. Fl. Scarlatache, **Gh. Grigoraş**, B.C. Neagu, Clustering Based Data Mining in Wind Power Production, ECAI 2017 - International Conference – 9th Edition Electronics, Computers and Artificial Intelligence, 29 June -01 July, 2017, Targoviste, Romania WOS:000425865900119 (**16,66 puncte**) 2.4.8. **Gh. Grigoraş**, B.C. Neagu, Florina Scarlatache, Smart metering based approach for phase balancing in low voltage distribution systems, 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 551 -554, 2017 WOS:000403399400107 (**16,66 puncte**) 2.4.9. B.C. Neagu, **Gh. Grigoraş**, Fl.Scarlatache, Outliers discovery from Smart Meters data using a statistical based data mining approach, 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 555 -558, 2017, WOS:000403399400108 (**16,66 puncte**) **b. Volume indexate BDI (40 puncte)** 2.4.21. **Gh. Grigoraş**, B.C. Neagu, A. Adasacalitei, On the Assessment of Slow Voltage Variations in Electric Distribution Networks using K-Means Clustering Algorithm, 2nd IMEKO TC4 International Symposium & 20th International Workshop on ADC Modelling and Testing, Iași, Romania, September 14-15, 2017 (**10 puncte**) 2.4.22. B.C. Neagu, **Gh. Grigoraş**, Detection of Irregular Consumption to Load Monitoring in Smart Grids, 2nd IMEKO TC4 International Symposium & 20th International Workshop on ADC Modelling and Testing, Iași, Romania, September 14-15, 2017 (**15 puncte**) 2.4.23. B.C. Neagu, **Gh. Grigoraş**, An Efficient Metaheuristic Algorithm for Optimal Capacitor Allocation in Electric Distribution Networks, 2017 2nd International Conference on Software, Multimedia and Communication Engineering (SMCE 2017), Shanghai, China, pp. 327- 332, 2017 (**15 puncte**)	**207.18**
	2.5. Brevete acordate, produse omologate **Realizări:** 2.5.1. ..... 2.5.2.	**0**
	2.6. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie **Realizări:** 2.6.1. Platforma software de asistare a deciziilor în proiectarea ecologică optimă a instalațiilor electrice cu producere si stocare locală a energiei, în contextul creșterii eficienței energetice, Grant PN-III-P2-2.1-CI-2018-1128, Contract 192CI/25.07.2018 – Responsabil proiect (**75 puncte**) 2.6.2. Management inteligent a centralelor electrice virtuale cu ajutorul platformelor software bazate pe inteligenta artificiala, in contextul competitivitatii energetice Europene, Grant PN-III-P2-2.1-CI-2018-1011, Contract nr. 173CI din 02/07/2018 (4 membri) – Membru (**18,75 puncte**) 2.6.3. Platformă software inovativa pentru managementul energetic al consumatorilor finali in vederea cresterii eficientei energetice și a reducerii emisiilor de carbon, Grant PN-III-P2-2.1-CI-2018-1017, Contract nr. 174CI din 04/07/2018 (4 membri) – Membru (**18,75 puncte**)	**112,5**
	2.7. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare încheiate cu institute de cercetare, companii, regii, societăţi comerciale **Realizări:** **2.7.1.** Prognoza de consum propriu tehnologic pentru reteaua de energie electrica din zona de	**9.3**

	activitate a Delgaz Grid. S.A. pentru anul 2018; beneficiar: Delgaz Grid. S.A – Membru (46500 lei) (5 membri) – (**9,3 puncte**)	
	2.8. Creaţii de arhitectură, urbanism, restaurări, design şi arte plastice **Realizări:**	**0**
	2.9. Citări în reviste cotate ISI sau indexate în baze de date internaţionale (BDI) **Realizări:** a. **Citări în reviste cotate ISI sau indexate în baze de date internaţionale (BDI), în volume ale conferinelor indexate ISI sau BDI (343 puncte)** 2.9.1. LUCRAREA: Rotaru FI, Chicco G., Grigoras Gh., Cartina Gh., Two-stage distributed generation optimal sizing with clustering-based node selection, International Journal of Electrical Power & Energy Systems, Vol. 40, No. 1, September 2012, Pages 120–129, doi:10.1016/j.ijepes.2012.02.012 (**206 puncte**) a fost citata in lucrarile: 1. Georgilakis, P. S., & Hatziargyriou, N. D. (2013). Optimal distributed generation placement in power distribution networks: models, methods, and future research. IEEE Transactions on Power Systems, 28(3), 3420-3428. (**5 puncte**) 2. Peik-Herfeh, M., Seifi, H., & Sheikh-El-Eslami, M. K. (2013). Decision making of a virtual power plant under uncertainties for bidding in a day-ahead market using point estimate method. International Journal of Electrical Power & Energy Systems, 44(1), 88-98. (**5 puncte**) 3. Ugranlı, F., & Karatepe, E. (2013). Multiple-distributed generation planning under load uncertainty and different penetration levels. International Journal of Electrical Power & Energy Systems, 46, 132-144. (**5 puncte**) 4. Dehghanian, P., Hosseini, S. H., Moeini-Aghtaie, M., & Arabali, A. (2013). Optimal siting of DG units in power systems from a probabilistic multi-objective optimization perspective. International Journal of Electrical Power & Energy Systems, 51, 14-26. (**5 puncte**) 5. Murthy, V. V. S. N., & Kumar, A. (2013). Comparison of optimal DG allocation methods in radial distribution systems based on sensitivity approaches.International Journal of Electrical Power & Energy Systems, 53, 450-467 (**5 puncte**) 6. Rozali, N. E. M., Alwi, S. R. W., Manan, Z. A., Klemeš, J. J., & Hassan, M. Y. (2014). Optimal sizing of hybrid power systems using power pinch analysis.Journal of Cleaner Production, 71, 158-167. (**5 puncte**) 7. Jahromi, M. E., Ehsan, M., & Meyabadi, A. F. (2012). A dynamic fuzzy interactive approach for DG expansion planning. International Journal of Electrical Power & Energy Systems, 43(1), 1094-1105. (**5 puncte**) 8. Yadav, A., & Srivastava, L. (2014, January). Optimal placement of distributed generation: An overview and key issues. In Power Signals Control and Computations (EPSCICON), 2014 International Conference on (pp. 1-6). IEEE. (**2 puncte**) 9. De Souza, A. R. R., Fernandes, T. S. P., Aoki, A. R., Sans, M. R., Oening, A. P., Marcilio, D. C., & Omori, J. S. (2013). Sensitivity analysis to connect distributed generation. International Journal of Electrical Power & Energy Systems, 46, 145-152. (**5 puncte**) 10. Ugranlı, F., & Karatepe, E. (2013). Optimal wind turbine sizing to minimize energy loss. International Journal of Electrical Power & Energy Systems, 53, 656-663. (**5 puncte**) 11. Ebrahimi, R., Ehsan, M., & Nouri, H. (2013). A profit-centric strategy for distributed generation planning considering time varying voltage dependent load demand. International Journal of Electrical Power & Energy Systems, 44(1), 168-178. (**5 puncte**) 12. Vinothkumar, K., & Selvan, M. P. (2014). Hierarchical agglomerative clustering algorithm method for distributed generation planning. International Journal of Electrical Power & Energy Systems, 56, 259-269. (**5 puncte**) 13. Li Jing, Wei Wei, Xin Huanhai, & Peng Yonggang. (2014). Based on the optimal allocation of wind power probability trend of distributed power. Automation of Electric Power Systems, 38 (14), 70G76. (ACM0) (**3 puncte**) 14. Chen, G., Chen, B., Dai, P., & Zhou, H. (2013). A Sustainability-Oriented Multiobjective Optimization Model for Siting and Sizing Distributed Generation Plants in Distribution Systems. Mathematical Problems in Engineering, 2013. (**5 puncte**) 15. Sultana, S., & Roy, P. K. (2015). Oppositional krill herd algorithm for optimal location of distributed generator in radial distribution system. International Journal of Electrical Power & Energy Systems, 73, 182-191. (**5 puncte**) 16. Hui, W., & Fangqiu, X. (2012, December). Different load models based on particle swarm algorithm for the siting and sizing optimization problem for distributed power. In 2012 10th International Power & Energy Conference (IPEC) (pp. 19-24). (IEEE Xplore) (**1 punct)** 17. Gupta, P., Pandit, M., & Kothari, D. P. (2014, December). A review on optimal sizing and siting of distributed generation system: Integrating distributed generation into the grid. In Power India International Conference (PIICON), 2014 6th IEEE (pp. 1-6). (**2 puncte**) 18. Singh, A. K., & Parida, S. K. (2015). Allocation of distributed generation using proposed DMSP approach based on utility and customers aspects under deregulated environment. International Journal of Electrical Power & Energy Systems, 68, 159-169. (**5 puncte**) 19. Prenc, R., Bogunović, N., & Cuculić, A. (2015). The effect of distributed generation type and location constraints on the solution of the allocation algorithm. International Review of Electrical Engineering (IREE), 10(1), 88-97. (SCOPUS) (**3 puncte**) 20. Dehghanian, P., Hosseini, S. H., Moeini-Aghtaie, M., & Arabali, A. (2013). Electrical Power and Energy Systems. Electrical Power and Energy Systems,51, 14-26. (**5 puncte**)	**754**

21. Georgilakis, P. S. (2013). Integration of Distributed Generation in the Power System, M. Bollen, F. Hassan. Wiley–IEEE Press, New Jersey (2011). (**5 puncte**)
22. Ugranlı, F., & Karatepe, E. (2015). Multi-objective transmission expansion planning considering minimization of curtailed wind energy. International Journal of Electrical Power & Energy Systems, 65, 348-356. (**5 puncte**)
23. Huy, P. D., Ramachandaramurthy, V. K., & Pesaran, H. M. (2015, November). Optimal selection of location, sizing and power factor for solar PV plants using differential evolution. In Smart Grid Technologies-Asia (ISGT ASIA), 2015 IEEE Innovative (pp. 1-6). (**2 puncte**)
24. Nojavan, S., Jalali, M., & Zare, K. (2015). An MINLP Approach for Optimal DG Unit's Allocation in Radial/Mesh Distribution Systems Take into Account Voltage Stability Index. Iranian Journal of Science and Technology. Transactions of Electrical Engineering,39(E2), 155. (**5 puncte**)
25. Kumawat, M., Gupta, N., Jain, N., & Saxena, D. (2015, January). Optimal distributed generation placement in power distributed networks: A review. In Electrical, Electronics, Signals, Communication and Optimization (EESCO), 2015 International Conference on (pp. 1-6). (**2 puncte**)
26. Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, International Journal of Electrical, Electronics and Computer Systems (IJEECS), Vol.1, No. 1, 2013. (DOAJ) (**3 puncte**)
27. SD. Meera Shareef, T.Vinod Kumar (2014), A Review on Models and Methods for Optimal Placement of Distributed Generation in Power Distribution System, International Journal of Education and applied research (IJEAR), 4(1), 161-169. (Index Copernicus) (**3 puncte**)
28. Prakash, P., & Khatod, D. K. (2016). Optimal sizing and siting techniques for distributed generation in distribution systems: A review. Renewable and Sustainable Energy Reviews, 57, 111-130 (**5 puncte**)
29. Sultana, S., & Roy, P. K. (2016). Krill herd algorithm for optimal location of distributed generator in radial distribution system. Applied Soft Computing, 40, 391-404. (**5 puncte**)
30. Sultana, U., Khairuddin, A. B., Aman, M. M., Mokhtar, A. S., & Zareen, N. (2016). A review of optimum DG placement based on minimization of power losses and voltage stability enhancement of distribution system. Renewable and Sustainable Energy Reviews, 63, 363-378. (**5 puncte**)
31. Elahimanesh, A., Moghimi, S. M., & Aghamohammadi, M. R. (2016). Effect of distributed generation units on stability improving trend of IEEE 14 and 34 Bus test network voltage. Indian Journal of Science and Technology, 9(15). (EBSCO) (**3 puncte**)
32. Kumar, M., Kumar, A., & Sandhu, K. S. (2016). PV-WT Based Distribution Generator Location Minimizing Transmission Loss in Pool/Bilateral Electricity Market Model. Procedia Technology, 25, 692-701. (ELSEVIER) (**3 puncte**)
33. Kools, L., & Phillipson, F. (2016). Data granularity and the optimal planning of distributed generation. Energy, 112, 342-352. (**5 puncte**)
34. HA, M. P., Huy, P. D., & Ramachandaramurthy, V. K. (2016). A review of the optimal allocation of distributed generation: Objectives, constraints, methods, and algorithms. Renewable and Sustainable Energy Reviews. 75, 293 – 312. (**5 puncte**)
35. Theo, W. L., Lim, J. S., Ho, W. S., Hashim, H., & Lee, C. T. (2017). Review of distributed generation (DG) system planning and optimisation techniques: Comparison of numerical and mathematical modelling methods. Renewable and Sustainable Energy Reviews, 67, 531-573. (**5 puncte**)
36. Kazmi, S. A. A., Shahzad, M. K., & Shin, D. R. (2017). Multi-Objective Planning Techniques in Distribution Networks: A Composite Review. Energies, 10(2), 208. (**5 puncte**)
37. HA, M. P., Huy, P. D., & Ramachandaramurthy, V. K. (2017). A review of the optimal allocation of distributed generation: Objectives, constraints, methods, and algorithms. Renewable and Sustainable Energy Reviews, 75, 293-312. (**5 puncte**)
38. Durairasan, M., Kalaiselvan, A., & Sait, H. H. (2017). Hybrid Technique for Locating and Sizing of Renewable Energy Resources in Power System. Journal of Electrical Engineering & Technology, 12(1), 161-172. (**3 puncte**)
39. Al Ameri, A., & Nichita, C. (2017). Linear model for optimal distributed generation size predication. Advances in Electrical and Electronic Engineering, 15(1), 28. (SCOPUS, EBSCO) (**5 puncte**)
40. Gkaidatzis, P. A., Bouhouras, A. S., Doukas, D. I., Sgouras, K. I., & Labridis, D. P. (2017). Load variations impact on optimal DG placement problem concerning energy loss reduction. Electric Power Systems Research, 152, 36-47. (**5 puncte**)
41. Chen, H., Hu, Z., Jia, Y., & Shen, Z. J. M. (2017). Risk-Averse Joint Capacity Evaluation of PV Generation and Electric Vehicle Charging Stations in Distribution Networks, IEEE PES Innovation Smart Grids Technologies (ISGT 2017), Torino, Italia (IEEE Xplore) (**1 punct**)
42. Othmann M.M., El-Khattan W., Abdelaziz A.Y., A Firefly based Optimization Algorithm for Optimal Planning of Voltage Controlled Distributed Generators, Engineering Optimization IV, 523 – 528, Francis & Taylor Group (SCOPUS) (**3 puncte**)
43. Sultana U., Khairuddina A., Mokhtara A. S., Hussain Qazia S., Sultanaa B., An Optimization Approach for Minimizing Energy Losses of Distribution Systems based on Distributed Generation Placement, Jurnal Teknologi, vol. 79, no. 4, pp. 87 – 96, 2017 (SCOPUS) (**3 puncte**)
44. Matos, D. M. B., & Catalão, J. P. S. (2013). Geração Distribuída e os seus Impactes no Funcionamento da Rede Elétrica: Parte 2. *Potência*, *1*(2), 3. (**3 puncte**)
45. Morvaj, B., Evins, R., and Carmeliet, J. (2015). Bi-level optimisation of distributed energy systems incorporating non-linear power flow constraints. In *Proceedings of International Conference CISBAT 2015 Future Buildings and Districts Sustainability from Nano to Urban Scale* (No. EPFL-CONF-213433, pp. 859-864). LESO-PB, EPFL. (**1 punct**)
46. Tamayo, D. C. L., Burgos, P. A. N., & Lezama, J. M. L. (2015). Optimal location and sizing of distributed generation: a review of the state of the art.*REVISTA POLITÉCNICA*, *11*(20), 99-110. (**3 puncte**)
47. *E. R. Magaril, C. A. Brebbia, M. Y. Khodorovsky, Energy Productionand Management in the 21st*

Century, Vol 1, WIT Press, 2014. http://books.google.ro/books?id=2nj4AgAAQBAJ&pg=PA453&lpg=PA453&dq=Twostage+distributed+generation+optimal+sizing+with+clusteringbased+node+selection&source=bl&ots=dR2RFyEqcf&sig=YVOkc1SivLg0ZeZVw1gkuCW6k24&hl=en&sa=X&ei=AS6MU5zZLsWROKXkgKgD&redir_esc=y#v=onepage&q=Twostage%20distributed%20generation%20optimal%20sizing%20with%20clustering-based%20node%20selection&f=fals. (**3 puncte**)

48. *Whole sale Distributed Generation (WDG) Catalogue of Benefits,* http://www.clean-coalition.org/site/wp-content/uploads/2013/07/WDG-Catalogue-of-Benefits-04_jb-26-July-2013.pddf. (**3 puncte**)
49. Karanja, J. M., L. M. Ngoo, and Christopher M. Muriithi. A review of multi-objective methods for optimal location and capacity of distributed generations in modern power systems, Proceedings of the Sustainable Research and Innovation Conference, JKUAT Main Campus, Kenya 3 - 5 May 2017 2017. (**1 punct**)
50. Penangsang, Ontoseno, Dimas Fajar Uman Putra, and Taufani Kurniawan. "Optimal placement and sizing of distributed generation in radial distribution system using K-means clustering method." Intelligent Technology and Its Applications (ISITIA), 2017 International Seminar on. IEEE, 2017.(**2 puncte**)
51. Carrión, D.; García, E.; González, J. W.; Isaac, I. A.; López, G. J.; Hincapié, R., Método Heurístico de Ubicación Óptima de Centros de Transformación y Enrutamiento de Redes Eléctricas de Distribución, Revista Técnica Energía . ene2017, Issue 13, p90-96 (**3 puncte**).
52. Latreche, Y., Bouchekara, H. R. E. H., Kerrour, F., Naidu, K., Mokhlis, H., & Javaid, M. S., Comprehensive review on the optimal integration of distributed generation in distribution systems. Journal of Renewable and Sustainable Energy, vol. 10, no. 5, 2018, 055303. (**5 puncte**)
53. Bouhouras, Aggelos S., Paschalis A. Gkaidatzis, and Dimitris P. Labridis, Optimal Distributed Generation Placement Problem for Power and Energy Loss Minimization, Electric Distribution Network Planning. Springer, Singapore, 2018. 215-251 (**5 puncte**)

2.9.2. LUCRAREA:

Bobric E.C., Cârţină Gh., Grigoraş Gh, *Clustering Techniques in Load Profile Analyze for Distribution Stations*, Journal of Advances in Electrical and Computer Engineering, Romania, Nr.1, 2009, pp. 63 – 66, ISSN: 1582 – 7445 (**64 puncte**)

a fost citata in lucrarile:

1. Rogers, D. F., & Polak, G. G. (2013). Optimal clustering of time periods for electricity demand-side management. IEEE Transactions on Power Systems,28(4), 3842-3851. (**5 puncte**)
2. Filote, C., Ciufudean, C., Alaci, S., & Cozgarea, A. M. (2011, August). Wavelet multiresolution analysis of TPRD and RNSIC input current. In 11th WSEAS International Conference on signal processing, computational geometry and artificial vision (pp. 158-165). (SCOPUS) (**1 punct**)
3. Filote, C., Ciufudean, C., & Cozgarea, A. M. (2009, September). A comparative analysis of total harmonic distortion in TPRD and RNSIC. In 2009 13th European Conference on Power Electronics and Applications. (**2 puncte**)
4. Piao, M., Li, M., & Ryu, K. H. (2010, June). Using Significant Classification Rules to Analyze Korean Customers' Power Consumption Behavior: Incremental Tree Induction using Cascading-and-Sharing Method. In 2010 10th IEEE International Conference on Computer and Information Technology. (IEEE Xplore) (**1 punct**)
5. Filote, C., Ciufudean, C., Musteata, F., Chirila, O., & Cozgarea, A. M. (2010). New method for power factor correction with RNSIC. In Proc. of Int. Conf. on Circuits, Systems, Signals, CSS (pp. 353-358). (**2 puncte**)
6. Komenda, T., & Komenda, N. (2012). Morphometrical analysis of daily load graphs. International Journal of Electrical Power & Energy Systems, 42(1), 721-727. (**5 puncte**)
7. Varga, E. D., Beretka, S. F., Noce, C., & Sapienza, G. (2015). Robust real-time load profile encoding and classification framework for efficient power systems operation. IEEE Transactions on Power Systems, 30(4), 1897-1904. (**5 puncte**)
8. Beretka, S. F., & Varga, E. D. (2013). Efficient encoding of customer class load profiles. In 2013 Africon, Pointe aux Piments, MAURITIUS. (**2 puncte**)
9. Beretka, S. F., & Varga, E. D. (2013, October). Locality sensitive hashing of customer load profiles. In 2013 International Conference on Renewable Energy Research and Applications (ICRERA). (**2 puncte**)
10. Brabec, M., Konár, O., Malý, M., Kasanický, I., & Pelikán, E. (2015). Statistical models for disaggregation and reaggregation of natural gas consumption data. Journal of Applied Statistics, 42(5), 921-937. (**5 puncte**)
11. Filote, C., Ciufudean, C., Micea, M. V., & Cozgarea, A. M. Power Factor Improvement Using Rnsic Rectifier, Proceedings of the IASTED International Conference, November 24 - 26, 2010 Phuket, Thailand, Power and Energy Systems (AsiaPES 2010) (SCOPUS) (**1 punct**)
12. Rahideh, A., Gitizadeh, M., & Sadrzadeh, A. (2015, April). Voltage and reactive power control in a distribution system using hybrid SA-DBPSO algorithm. In Electrical Power Distribution Networks Conference (EPDC), 2015 20th Conference on (pp. 72-77). (**2 puncte**)
13. Mujović, S., Djukanović, S., Radulović, V., Katić, V., & Rašović, M. (2013). Least Squares Modeling of Voltage Harmonic Distortion Due to PC Cluster Operation. Advances in Electrical and Computer Engineering, 13(4). (**5 puncte**)
14. Mets, K., Depuydt, F., & Develder, C. (2015), Two-Stage Load Pattern Clustering Using Fast Wavelet Transformation, IEEE Transactions on Smart Grid, Vol. 7 , nr. 5, pp. 2250 – 2259, 2016. (**5 puncte**)

15. Malik, F. H., Mubbashir, A., & Lehtonen, M. (2014). Collaborative Demand Response Optimization of Electric Vehicles and Storage Space Heating for Residential Peak Shaving. International Review of Electrical Engineering (IREE), 9(6), 1154-1161. (SCOPUS) (**3 puncte**)
16. Blagojević, M., Micić, Ž., & Vujičić, M. (2016). Cluster analysis of knowledge sources in standardized electrical engineering subfields. Serbian Journal of Electrical Engineering, 13(3), 405-422. (SCOPUS) (**3 puncte**)
17. Aun, S. L. Z., Marsadek, M. B., & Ramasamy, A. K. (2017). Small Signal Stability Analysis of Grid Connected Photovoltaic. Indonesian Journal of Electrical Engineering and Computer Science, 6(3). (SCOPUS) (**3 puncte**)
18. Mujović, S., Djukanović, S., & Katić, V. A. (2017). Simultaneous Operation of Personal Computers and Mathematical Assessment of Their Harmonic Impact on the Grid. In Advanced Technologies, Systems, and Applications (pp. 57-79). (Springer). (**3 puncte**)
19. Chen, K., Hu, J., & He, Z. (2017, July). Data-driven residential customer aggregation based on seasonal behavioral patterns. In Power & Energy Society General Meeting, 2017 IEEE (pp. 1-5). IEEE (**2 puncte**)
20. Iqteit, N. A., Arsoy, A. B., & Çakir, B. (2017, November). A simple method to estimate power losses in distribution networks. In Electrical and Electronics Engineering (ELECO), 2017 10th International Conference on (pp. 135-140). IEEE. (**2 puncte**)
21. IQTEIT, Nassim; ARSOY, Ayşen Basa; ÇAKIR, Bekir. Load Profile-Based Power Loss Estimation for Distribution Networks. Journal Of Electrical And Electronics Engineering, vol. 18, no. 2, pp. 275-283, 2018 (**5 puncte**)

2.9.3. LUCRAREA:

Bobric E.C., Cârţină Gh., **Grigoraş Gh**., *Fuzzy Techniques used for Energy Losses Determination in Medium and Low Voltage Networks*, Journal of Electronics and Electrical Engineering, Lituania, Nr. 2 (90), 2009, pp. 95 – 98 (**27 puncte**)

a fost citata in lucrarile:

1. Lisauskas, S., & Rinkevičienė, R. (2015). Model of ventilation system drive with Fuzzy controller. *Elektronika ir Elektrotechnika*, *106*(10), 13-16. (**5 puncte**)
2. Han, Y., Xu, L., Yao, G., Zhou, M., & Chen, C. (2015). The adaptive signal processing scheme for power quality conditioning applications based on active noise control (ANC). *Elektronika ir Elektrotechnika*, *96*(8), 9-14. (**5 puncte**)
3. Filote, C., Ciufudean, C., & Cozgarea, A. M. (2009, September). A comparative analysis of total harmonic distortion in TPRD and RNSIC. In *2009 13th European Conference on Power Electronics and Applications*. (**2 puncte**)
4. Sylwester, F. (2011). Application of Classifier System and Co-Evolutionary Algorithm in Optimization of Medium-Voltage Distribution Networks Post-Fault Configuration. *Elektronika ir Elektrotechnika*, *115*(9), 9-15. (**5 puncte**)
5. Erguzel, T. T. (2013). Fuzzy controller parameter optimization using genetic algorithm for a real time controlled system. In *Proceedings of the World Congress on Engineering* (Vol. 2, pp. 3-5). (**2 puncte**)
6. Juraitis, S., Rinkeviciene, R., & Kriauciunas, J. (2011). Fuzzy Controller of Two-mass System. *Elektronika ir Elektrotechnika*, *116*(10), 3-6. (**5 puncte**)
7. Stępień, J., & Filipiak, S. (2014). Optimisation of Distribution Network Configuration with the Aid of Co-Evolutionary Algorithm with Regard for Reliability Coefficients Varying During Operation of Network Elements.*Universal Journal of Electrical and Electronic Engineering*, *2*(3), 97-104. (**3 puncte**)

2.9.4.LUCRAREA:

Gh. Grigoras, Gh. Cartina, M. Gavrilas, *Using of Clustering Techniques in Optimal Placement of Phasor Measurements Units",* , Proceedings of the 9th WSEAS/IASME International Conference on Electric Power Systems, High Voltages, Electric Machines, Genova, Italy, pp.104-108 (**14 puncte**)

a fost citata in lucrarile:

1. Priyadharshini, M., & Meenakumari, R. (2014, March). Probabilistic approach based optimal placement of phasor measurement units via the estimation of dynamic vulnerability assessment. In *Green Computing Communication and Electrical Engineering (ICGCCEE), 2014 International Conference on* (pp. 1-7). IEEE. (**2 puncte**)
2. Takata, M., Miyata, Y., & Nishikawa, N. (2015, March). Proposal of analytics software architecture with data preparation layer for fast event identification in wide-area situational awareness. In *Industrial Technology (ICIT), 2015 IEEE International Conference on* (pp. 1741-1746). IEEE. (**1 punct)**
3. Abdelaziz A. Y., Amr M. Ibrahim, Reham H. Salem (2013), Power system observability with minimum phasor measurement units placement, ,*International Journal of Engineering, Science and Technology,* Vol. 5, No. 3, 2013, pp. 1-18. (**3 puncte**)
4. Priyadharshini N, Meenakumari R, Priyadharshini M, Optimal Placement of Phasor Measurement Unit based on Power System Loss Index, Asian Journal of Research in Social Sciences and Humanities, 2016, Vol. 6, no. 11, pp. 479-491. (**3 puncte**)
5. Carrión, D., & González, J. W. (2018, November). Optimal PMU Location in Electrical Power Systems Under N-1 Contingency. In 2018 International Conference on Information Systems and Computer Science (INCISCOS) (pp. 165-170) (**2 puncte**)
6. Eissa, M., & Kassem, A. (2018). Hierarchical Clustering based optimal PMU placement for power system fault observability. Heliyon, vol. 4, no. 8, e00725. (**3 puncte**)

2.9.5. LUCRARE:

Grigoras, Gh., Cartina, G., & Bobric, E. (2010). Strategies for Power/Energy Saving in Distribution Networks. *Advances in Electrical and Computer Engineering*, *10*(2), 61-64. (**21 puncte**)

a fost citata in lucrarile:

1. Xiao, P., & Liu, D. (2015). Improving network routing energy–efficiency for real–time workloads by stochastic service model. *International Journal of Information and Communication Technology*, *7*(2-3), 302-315. (**3 puncte**)
2. Selakov, A., Cvijetinović, D., & Ilić, S. (2012). Short term load forecasting using support vector machines for different consumer types. *Journal on Processing and Energy in Agriculture*, *16*(3), 128-131. (**3 puncte**)
3. Peng, X., Peixin, Q., & Xilong, Q. (2013). An Energy-aware Routing Mechanism for Latency-sensitive Traffics. *International Journal of Grid and Distributed Computing*, *6*(6), 23-36. (**3 puncte**)
4. Malik, F. H., Mubbashir, A., & Lehtonen, M. (2014). Collaborative Demand Response Optimization of Electric Vehicles and Storage Space Heating for Residential Peak Shaving. *International Review of Electrical Engineering (IREE)*, *9*(6), 1154-1161. (**3 puncte**)
5. Grujić, A., & Stojković, Z. (2016). Fuzzy logic-based concept for high-voltage substation risk management against lightning. *IEEJ Transactions on Electrical and Electronic Engineering*, 11(S1), S28-S36. (**3 puncte**)
6. Tang, C., Zhu, S., Li, J., Zhang, D., & Yang, J. (2014). A modified optimization model for the location selection of distribution transformer used in rural power network. *Journal of Computers*, *9*(4), 875-882. (**3 puncte**)
7. Sarchiz, D., Dub, V., & Bucur, D. (2010). Optimization Strategies to Increase Electrical Distribution Networks Robustness 20 kV and 110 kV from County Mures. *Scientific Bulletin of the" Petru Maior" University of Targu Mures*, *7*(2), 10. (**3 puncte**)

2.9.6. LUCRAREA:

Grigoras, G., & Scarlatache, F. (2015). An assessment of the renewable energy potential using a clustering based data mining method. Case study in Romania. *Energy*, *81*, 416-429. (**82 puncte**)

a fost citata in lucrarile:

1. Meldon, J., & Benjamin, R. (2015), Renewable Energy Integration and the Algorithm of Power Generation and Cogeneration Management.*Journal of Electrical Engineering and Science,* 1(1). (**3 puncte**)
2. Darvishi, A., & Hassanpour, H. (2015). A Geometric View of Similarity Measures in Data Mining. *International Journal of Engineering-Transactions C: Aspects*, *28*(12), 1728. (**3 puncte**)
3. Sánchez-Lozano, J. M., García-Cascales, M. S., & Lamata, M. T. (2016). Comparative TOPSIS-ELECTRE TRI methods for optimal sites for photovoltaic solar farms. Case study in Spain. *Journal of Cleaner Production*, *127*, 387-398. (**5 puncte**)
4. Izadyar, N., Ong, H. C., Chong, W. T., & Leong, K. Y. (2016). Resource assessment of the renewable energy potential for a remote area: a review. Renewable and Sustainable Energy Reviews, 62, 908-923. (**5 puncte**)
5. Proskurina, S., Sikkema, R., Heinimö, J., & Vakkilainen, E. (2016). Five years left–How are the EU member states contributing to the 20% target for EU's renewable energy consumption; the role of woody biomass. Biomass and bioenergy, 95, 64-77. (**5 puncte**)
6. Onea, F., & Rusu, E. (2016). The expected efficiency and coastal impact of a hybrid energy farm operating in the Portuguese nearshore. Energy, 97, 411-423. (**5 puncte**)
7. Zhao, C., Qiao, X., Cao, Y., & Shao, Q. (2017). Application of hydrogen peroxide presoaking prior to ammonia fiber expansion pretreatment of energy crops. Fuel, 205, 184-191. (**5 puncte**)
8. Operacz, A. (2017). The term “effective hydropower potential” based on sustainable development–an initial case study of the Raba river in Poland. Renewable and Sustainable Energy Reviews, 75, 1453-1463. (**5 puncte**)
9. Yesilbudak, M. (2016, November). Clustering analysis of multidimensional wind speed data using k-means approach. In Renewable Energy Research and Applications (ICRERA), 2016 IEEE International Conference on (pp. 961-965). IEEE. (**2 puncte**)
10. Chidean, M. I., Caamaño, A. J., Ramiro-Bargueño, J., Casanova-Mateo, C., & Salcedo-Sanz, S. (2017). Spatio-temporal analysis of wind resource in the Iberian Peninsula with data-coupled clustering. Renewable and Sustainable Energy Reviews. (**5 puncte**)
11. Kandemir, S. Y., & Yaylı, M. Ö. (2016). Investigation of Renewable Energy Sources for Airports. In Sustainable Aviation (pp. 11-16). Springer, Cham. (**3 puncte**)
12. Lupu, A. G., Dumencu, A., Atanasiu, M. V., Panaite, C. E., Dumitraşcu, G., & Popescu, A. (2016, August). SWOT analysis of the renewable energy sources in Romania-case study: solar energy. In IOP Conference Series: Materials Science and Engineering (Vol. 147, No. 1, p. 012138). IOP Publishing. (**2 puncte**)
13. Năstase, G., Şerban, A., Năstase, A. F., Dragomir, G., Brezeanu, A. I., & Iordan, N. F. (2017). Hydropower development in Romania. A review from its beginnings to the present. Renewable and Sustainable Energy Reviews, 80, 297-312. (**5 puncte**)
14. Vira ChevhanovaKseniia ChichulinaVitaliya Skryl, Effective Cluster Model of Thermal Power Company Management, International Journal of Engineering & Technology, Vol 7, No 3.2 (2018), Special Issue 2, pp. 65 – 70 (**3 puncte**)
15. Xiaodong MaiJiangke ChengShengnan Wang, Research on semi supervised K-means clustering algorithm in data mining, Cluster Computing, March, 2018, Cluster Computing, DOI: 10.1007/s10586-018-2199-7 (**5 puncte**)
16. Operacz, A., & Grahl-Madsen, M. (2018). Program Of Hydropower Potential Assessment As An Effective Possibilities In Upper Vistula Water Region In Poland, Acta Sci. Pol. Formatio

Circumiectus, vol. 17, no.4, 157–172, 2018 (**5 puncte**)

17. Patarau, T., Petreus, D., Etz, R., & Lazar, E. (2018, August). Techno-Economic Feasibility Study on an Off-Grid Renewable Energy Microgrid for an Isolated Greenhouse in Romania. In 2018 IEEE 18th International Power Electronics and Motion Control Conference (PEMC), pp. 445-450, 2018. (**1 punct**)
18. Năstase, G., Șerban, A., Dragomir, G., Brezeanu, A. I., Bucur, I., Photovoltaic development in Romania. **Reviewing what has been done. Renewable and Sustainable Energy Reviews, vol. 94, pp. 523-535, 2018 (5 puncte**)
19. Chidean, M. I., Caamaño, A. J., Ramiro-Bargueño, J., Casanova-Mateo, C., & Salcedo-Sanz, S, Spatio-temporal analysis of wind resource in the Iberian Peninsula with data-coupled clustering. Renewable and Sustainable Energy Reviews, vol. 81, pp. 2684-2694, 2018 **(5 puncte**)
20. Sun, M., Teng, F., Konstantelos, I., & Strbac, G.. An objective-based scenario selection method for transmission network expansion planning with multivariate stochasticity in load and renewable energy sources. Energy, vol. 145, pp. 871-885, 2018. (**5 puncte**)

2.9.7. LUCRAREA:

Grigoras, G., Cartina, G., & Rotaru, F. (2010, October). Using K-means clustering method in determination of the energy losses levels from electric distribution systems. In *Proceedings of the 12th WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, Timisoara, Romania* (pp. 52-6). (**3 puncte**)

a fost citata in lucrarea:

1. Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (**3 puncte**)

2.9.8. LUCRAREA:

Cartina, G., Grigoras, G., & Bobric, E. C. (2007, October). Power system analysis using Matlab toolboxes. In *6th International Conference on Electromechanical and Power Systems, Chisinau, Rep. Moldova*. (**13 puncte**)

a fost citata in lucrarile:

1. Al-Sheikh, H., & Moubayed, N. (2012). An overview of simulation tools for renewable applications in power systems. In *2012 2nd International Conference on Advances in Computational Tools for Engineering Applications (ACTEA)*. (**2 puncte**)
2. Akorede, M. F., & Hizam, H. (2009, December). Teaching power system analysis courses using MATPOWER. In Engineering Education (ICEED), 2009 International Conference on (pp. 45-51). IEEE. 90 (**1 punct**)
3. Shaikh, S. K. M., & Dharme, A. A. (2009, December). Time of Use pricing-India, a case study. In *Power Systems, 2009. ICPS'09. International Conference on* (pp. 1-6). IEEE. (**1 punct**)
4. Tanwani, N. K., Memon, A. P., Adil, W. A., & Ansari, J. A. Simulation Techniques of Electrical Power System Stability Studies Utilizing Matlab/Simulink. *engineer*, *9*, 18. (**3 puncte**)
5. Bobric, E. C., Irimia, D., Rata, G., & Rata, M. Planning and Management of the Power System Using Dsatools'software, *ANNALS of the ORADEA UNIVERSITY*, Fascicle of Management and Technological Engineering, Volume IX (XIX), 2010, NR1.(**3 puncte**)
6. Zamani, I. (2015). *Optimal distributed generation planning based on NSGA-II and MATPOWER* (Doctoral dissertation, Brunel University London). (**3 puncte**)

2.9.9. LUCRAREA:

Grigoraş, G., & Scarlatache, F. (2014, May). Use of data from smart meters in optimal operation of distribution systems. In *2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* (pp. 179-184). IEEE. (**9 puncte**)

a fost citata in lucrarile:

1. Dev, V. C., Das, U., Namboodiri, V., Chakraborty, S., Aravinthan, V., Guo, Y., & Srivastava, A. (2015, November). Towards application-aware data concentration schemes for advanced metering infrastructures. In *2015 IEEE International Conference on Smart Grid Communications (SmartGridComm)*(pp. 440-445). IEEE. (**2 puncte**)
2. Uribe-Pérez, N., Hernández, L., de la Vega, D., & Angulo, I. (2016). State of the art and trends review of smart metering in electricity grids. Applied Sciences, 6(3), 68. (**5 puncte**)
3. Avram, S., Plotenco, V., & Paven, L. N. (2017, May). Design and development of an electricity Meter Test Equipment. In Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), 2017 International Conference on (pp. 96-101). IEEE. (**2 puncte**)

2.9.10. LUCRAREA:

Cartina, G., Grigoras, G., & Bobric, E. C. Clustering techniques for energy losses evaluation in distribution networks. In *2009 IEEE Bucharest PowerTech*. (**21 puncte**)

a fost citata in lucrarile:

1. Zhang, Y. J., Zhang, X. T., Li, Q. H., Ran, L., & Cai, Z. X. (2014). Gray theory based energy saving potential evaluation and planning for distribution networks.*International Journal of Electrical Power & Energy Systems*, *57*, 298-303. (**5 puncte**)
2. Zhang, Y. J., & Zhan, X. T. (2012, September). Study on energy saving potential evaluation for distribution networks. In *Power Engineering and Automation Conference (PEAM), 2012 IEEE* (pp.

1-3). IEEE. (**2 puncte**)

3. Chen, B., Cui, T., Ye, L., & Li, C. (2015, November). A comprehensive energy saving potential evaluation method for the distribution networks. In *2015 5th International Conference on Electric Utility Deregulation and Restructuring and Power Technologies (DRPT)* (pp. 478-481). IEEE. (**2 puncte**)
4. Schlueter, A., Geyer, P., & Cisar, S. (2016). Analysis of georeferenced building data for the identification and evaluation of thermal microgrids. Proceedings of the IEEE, 104(4), 713-725. (**5 puncte**)
5. Falahi, M., Alavi, H., Shaygan, M., & Hojati, A. (2013, January). A new method for optimal planning in extensive distribution networks despite uncertain data. In Electricity Distribution (CIRED 2013), 22nd International Conference and Exhibition on (pp. 1-4). IET. (**1 punct**)
6. Gheorghiu, Elena Maria Catalina; Poienar, Mihaela; Milici, L. Dan, Current State of Researches in the Development of Energy Systems at Stefan cel Mare University of Suceava, 10th International Conference and Expositions on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 18-19, 2018 (**2 puncte**)
7. Valentin Stefanescu, Tudorel Antohi, Mihaela Poienar, Automatic Reconfiguration of Medium Voltage Power Distribution Networks in Emergency Mode, 10th International Conference and Expositions on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 18-19, 2018 (**2 puncte**)
8. Mihai Cenusa, Mihaela Poienar, Laurentiu Dan Milici, Solution to improve the quality of electricity in low voltage networks, 10th International Conference and Expositions on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 18-19, 2018 (**2 puncte**)

2.9.11. LUCRAREA:

Cartina, G., Alexandrescu, V., Grigoras, G., & Moshe, M. (2000, May). Peak load estimation in distribution networks by fuzzy regression approach. In*Electrotechnical Conference, 2000. MELECON 2000. 10th Mediterranean* (Vol. 3, pp. 907-910). IEEE. (**19 puncte**)

a fost citata in lucrarile:

1. Zhong, S., & Tam, K. S. (2012). A frequency domain approach to characterize and analyze load profiles. *IEEE Transactions on Power Systems*, *27*(2), 857-865. (**5 puncte**)
2. Wang, J. Z., Wu, L., & Lu, H. Y. (2007, November). Special periods peak load analysis and superior forecasting method based on LS-SVM. In *2007 International Conference on Wavelet Analysis and Pattern Recognition* (Vol. 1, pp. 249-253). IEEE. (**2 puncte**)
3. Moda, H. P. (2009). *Non-Negative Least Square Optimization Model for Industrial Peak Load Estimation* (Doctoral dissertation, Virginia Polytechnic Institute and State University). (**3 puncte**)
4. M. Soni, Quantitative Assessment of Geographical Based Load Forecast Technique at Eskom Distribution: Forecast Error and Impact on Infrastructure Execution, 8th Southern Africa Regional Conference, South Africa, 2017 (**1 punct**)
5. Zhong, ShiyinElectricity Load Modeling in Frequency Domain, Doctoral dissertation, Virginia Polytechnic Institute and State University, 2017 (**3 puncte**)
6. Oztaysi, B., Onar, S. Ç., Bolturk, E., & Kahraman, C. (2018). Fuzzy Forecasting Methods for Energy Planning. In Energy Management—Collective and Computational Intelligence with Theory and Applications (pp. 65-81). Springer, Cham. (**5 puncte**)

2.9.12. LUCRAREA:

Grigoras, G., Scarlatache, F., & Cartina, G. Load estimation for distribution systems using clustering techniques. In *2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)*. (**27 puncte**)

a fost citata in lucrarile:

1. Semeraro, L., Crisostomi, E., Franco, A., Landi, A., Raugi, M., Tucci, M., & Giunta, G. (2014, October). Electrical load clustering: The Italian case. In *IEEE PES Innovative Smart Grid Technologies, Europe* (pp. 1-6). IEEE. (**2 puncte**)
2. Ferraro, P., Crisostomi, E., Tucci, M., & Raugi, M. (2016). Comparison and clustering analysis of the daily electrical load in eight European countries. Electric Power Systems Research, 141, 114-123. (**5 puncte**)
3. Tanwar, A. K., Crisostomi, E., Ferraro, P., Raugi, M., Tucci, M., & Giunta, G. (2015, July). Clustering analysis of the electrical load in European Countries. In Neural Networks (IJCNN), 2015 International Joint Conference on (pp. 1-8). IEEE. (**2 puncte**)
4. Bartolozzi, A., Favuzza, S., Ippolito, M. G., La Cascia, D., Riva Sanseverino, E., & Zizzo, G. (2017). A New Platform for Automatic Bottom-Up Electric Load Aggregation. Energies, 10(11), 1682. (**5 puncte**)
5. Mishra, S., Leinakse, M., & Palu, I. (2017). Wind power variation identification using ramping behavior analysis. Energy Procedia, 141, 565-571. (**5 puncte**)
6. Hussain, M. M., Zakaria, Z., Rifin, R., Hussin, M. Z., Rahman, N. A., Ilham, N. I., ... & Sani, M. M. (2017, August). Prediction of time series based on load profile using JADE technique. In Control and System Graduate Research Colloquium (ICSGRC), 2017 IEEE 8th (pp. 33-36). IEEE. (**2 puncte**)
7. Mihai, C., Popa, C., & Mircea, P. M. (2016, September). Load profiling for gas stations using cluster techniques. In Power Electronics and Motion Control Conference (PEMC), 2016 IEEE International (pp. 1041-1048). IEEE. (**2 puncte**)
8. Mishra, Sambeet; Leinakse, Madis; Palu, Ivo; et al., Ramping Behaviour Analysis of Wind Farms, IEEE International Conference on Environment and Electrical Engineering / IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) Location: Palermo, ITALY Date: JUN 12-15, 2018 (**2 puncte**)
9. Hamed Sarjan Habib, Rajabi Mashhadi, Loss Estimation in Power Distribution Networks with

Limited Information Using Clustering Techniques, 26th Iranian Conference on Electrical Engineering (ICEE2018), pp. 1251 – 1256 (**2 puncte**)

2.9.13. LUCRAREA:

Grigoras, G., Cartina, G., Istrate, M., & Rotaru, F. (2011). The efficiency of the clustering techniques in the energy losses evaluation from distribution networks. *International Journal of Mathematical Models and Methods in Applied Sciences*, *5*(1), 133-140. (**3 puncte**)

a fost citata in lucrarile:

1. Philippopoulos, K., Deligiorgi, D., & Kouroupetroglou, G. (2014), Performance Comparison of Self-Organizing Maps and k-means Clustering Techniques for atmospheric circulation classification. *International Journal of Energy and Environment*, *8*, 171-180. (**3 puncte**)

2.9.14. LUCRAREA:

Istrate, M., & Grigoraş, G. (2010). Energy consumption estimation in water distribution systems using fuzzy techniques. *Environmental Engineering & Management Journal (EEMJ)*, *9*(2). (**17 puncte**)

a fost citata in lucrarile:

1. Bucur, D. M., Bunea, F., Ciocan, G. D., Băran, G., & Isbăşoiu, E. C. (2010). Water parameters evolution in a hydroelectric site. *Environmental Engineering and Management Journal*, *9*(11), 469-472. (**5 puncte**)
2. Geng, Y., Zhang, J., Zhou, Q., Xu, C., & Zhao, Y. Q. (2011). Fuzzy synthetic evaluation of Weihe water quality, *Environmental Engineering and Management Journal*, 10 (10), 1477-1484 (**5 puncte**)
3. Moraru, G., & Istrate, M. (2017, June). Elements of energy efficiency in water supply systems. A case study. In Modern Power Systems (MPS), 2017 International Conference on (pp. 1-4). IEEE. (**2 puncte**)
4. HSUEH, S., & CHENG, A. (2017). Improving Air Quality In Communities By Using A Multicriteria Decision-Making Model Based On Big Data: A Critical Review. Applied Ecology And Environmental Research, 15(2), 15-31. (**5 puncte**)

2.9.15. LUCRAREA:

Grigoras, G., Cartina, G., Bobric, E. C., & Rotaru, F. (2010, May). Evaluation of the performances of efficient transformers in distribution networks by fuzzy techniques. In *Optimization of Electrical and Electronic Equipment (OPTIM), 2010 12th International Conference on* (pp. 1281-1284). IEEE. (**7 puncte**)

a fost citata in lucrarile:

1. Cardenas, J. A., Gemoets, L., Rosas, J. H. A., & Sarfi, R. (2014). A literature survey on smart grid distribution: an analytical approach. *Journal of Cleaner Production*, *65*, 202-216. (**5 puncte**)
2. Andruşcă, M., Adam, M., Baraboi, A., Dragomir, A., & Munteanu, A. (2014, October). Using fuzzy logic for diagnosis of technical condition of power circuit breakers. In *Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on* (pp. 268-273). IEEE. (**2 puncte**)

2.9.16. LUCRAREA:

Grigoras, G., Cartina, G., & Bobric, E. C. (2010, April). An improved fuzzy method for energy losses evaluation in distribution networks. In *Melecon 2010-2010 15th IEEE Mediterranean Electrotechnical Conference* (pp. 131-135). IEEE. **(22 puncte)**

a fost citata in lucrarile:

1. Sharma, D. D., & Singh, S. N. (2015). Aberration detection in electricity consumption using clustering technique. *International Journal of Energy Sector Management*, *9*(4), 451-470. (**3 puncte**)
2. Wang, Y., Li, L., & Yang, Q. (2015, August). Application of clustering technique to electricity customer classification for load forecasting. In *Information and Automation, 2015 IEEE International Conference on* (pp. 1425-1430). IEEE. (**2 puncte**)
3. Sanchez, V. A., Lima, D. A., Ochoa, L. F., & Oliveira, M. E. (2015, June). Statistical Top-Down approach for energy loss estimation in distribution systems. In *PowerTech, 2015 IEEE Eindhoven* (pp. 1-6). IEEE. (**2 puncte**)
4. Sharma, D. D., Singh, S. N., Jeremy, L. I. N., & Foruzan, E. (2017). Identification and characterization of irregular consumptions of load data. Journal of Modern Power Systems and Clean Energy, 5(3), 465-477. (**5 puncte**)
5. Morales, D. X., Toledo, M. A., Vintimilla, J. H., & Medina, R. D. (2016, October). Smart multivariate techniques applied in the budget assignment for loss reduction in ecuador. In PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2016 IEEE (pp. 1-6). IEEE. (**2 puncte**)
6. Honarmand, M. E., Ghazizadeh, M. S., Kermanshah, A., & Haghifam, M. R. (2017). Visibility of Electric Distribution Utility Performance to Manage Loss and Reliability Indices. Journal of Electrical Engineering & Technology, 12(5), 1764-1776. (**5 puncte**)
7. Lezhnyuk, P., Rubanenko, O. Valuation of power losses in electrical networks of agro-industrial complex by criterion method with use neuro-fuzzy modelling. *Bulletin of NTU "KhPI". Series: New solutions in modern technologies*. – Kharkiv: NTU "KhPI", 2016, **18** (1190), 60-65. (**3 puncte**)

2.9.17. LUCRAREA:

Grigoras, G., Cartina, G., Bobric, E. C., & Barbulescu, C. (2009, June). Missing data treatment of the load profiles in distribution networks. In*PowerTech, 2009 IEEE Bucharest* (pp. 1-5). IEEE. (**16 puncte**)

a fost citata in lucrarile:

1. Porumb, R., & Seritan, G. (2015). Load Profiles Definition for the Electrical Distribution

Operator. *Acta Electrotehnica*, *56*(3). (**3 puncte**)

2. Radu Porumb, Petru Postolache, George Seriţan, Ramona Vatu, Oana Ceaki (2013). Load Profiles analysis for Electricity Market*, Computational Methods in Social Sciences*, 1(2), 30-38.(**3 puncte**)
3. Seriţan, G., Porumb, R., Cepişcă, C., & Grigorescu, S. (2016). Integration of Dispersed Power Generation. In Electricity Distribution (pp. 27-61). Springer, Berlin, Heidelberg. (**5 puncte**)
4. Davarzani, S., Pisica, I., & Taylor, G. A. (2016, September). Study of missing meter data impact on domestic load profiles clustering and characterization. In Power Engineering Conference (UPEC), 2016 51st International Universities (pp. 1-6). IEEE. (**2 puncte**)
5. Almeida, V. A., Pessanha, J. F., & Calôba, L. P. Uma Metodologia para o Tratamento de Dados de Carga Baseada em Técnicas de Inteligência Artificial, Workpedia 2016 Workshop de Pesquisa e Desenvolvimento em Inteligência Artificial, Inteligência Coletiva e Ciência de DadosAt: http://www.addlabs.uff.br/workpedia2016/#sobre (**1 punct**)
6. Almeida, V. A., Pessanha, J. F., & Caloba, L. P. (2018, May). Load data cleaning with data mining techniques. In 2018 Simposio Brasileiro de Sistemas Eletricos (SBSE) (pp. 1-6). IEEE (**1 punct**)
7. Sima Davarzan, Ioana Pisica, Gareth Anthony Taylor, Consumer-Led Power Management in Local Distribution Networks, 53rd International Universities Power Engineering Conference (UPEC), September 2018. (**1 punct**)

2.9.18. LUCRAREA:

Scarlatache, F., & Grigoraş, G. (2014, May). Optimal coordination of wind and hydro power plants in power systems. In *2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* (pp. 689-694). IEEE. (**10 puncte**)

a fost citata in lucrarile:

1. Odero, N. A., & Okinda, V. O. (2015). A review of techniques in optimal sizing of hybrid renewable energy systems. *International Journal of Research in Engineering and Technology*, 4(11), 153-163. (**3 puncte**)
2. Okinda, V. O., & Odero, N. A. (2016). Modelling,"Simulation and Optimal Sizing of a Hybrid Wind, Solar PV Power System in Northern Kenya". International Journal of Renewable Energy Research (IJRER), 6(4), 1199-1211. (**5 puncte**)
3. Javaid, M. S., Saeed, N., Al-Awami, A. T., & Khalid, Z. (2016, December). Stochastic versus Robust Optimization of wind-hydro power plant's operational strategy. In Multi-Topic Conference (INMIC), 2016 19th International (pp. 1-5). IEEE. (**2 puncte**)

2.9.19. LUCRAREA:

Grigoras, G., & Scarlatache, F. (2013, May). Energy losses estimation in electrical distribution networks with a decision trees-based algorithm. In *2013 8TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE)* (pp. 1-4). IEEE. (**12 puncte**)

a fost citata in lucrarile:

1. Fu, X., Chen, H., Cai, R., & Xuan, P. (2016). Improved LSF method for loss estimation and its application in DG allocation. *IET Generation, Transmission & Distribution*. (**5 puncte**)
2. Sanchez, V. A., Lima, D. A., Ochoa, L. F., & Oliveira, M. E. (2015, June). Statistical Top-Down approach for energy loss estimation in distribution systems. In *PowerTech, 2015 IEEE Eindhoven* (pp. 1-6). IEEE. (**2 puncte**)
3. Wang, S., Dong, P., & Tian, Y. (2017). A Novel Method of Statistical Line Loss Estimation for Distribution Feeders Based on Feeder Cluster and Modified XGBoost. Energies, 10(12), 2067. (**5 puncte**)

2.9.20. LUCRAREA:

Cârţină G, Grigoraş G, Bobric EC *Tehnici de clustering în modelarea fuzzy. Aplicații în energetică,* Casa de editura VENUS, 2005 (**8 puncte**)

a fost citata in lucrarile:

1. G. Chicco, *(2012)*, Overview and performance assessment of the clustering methods for electrical load pattern grouping, Energy, 42(1), 68-80. (**5 puncte**)
2. G. Chicco (2010) Clustering Methods For Electrical Load Pattern Classification, Scientific Bulletin of the Electrical Engineering Faculty, 10(3). (**3 puncte**)

2.9.21. LUCRAREA:

Grigoras, G., & Istrate, M. (2011). An efficient clustering method in evaluation of the electric energy consumption from water hydrophore stations.*International Review on Modelling and Simulations*, *4*(2). (**5 puncte**)

a fost citata in lucrarile:

1. Yan, J., Qi, M., Fang, L., Wang, Y., & Yu, J. (2013). Using Multi-Vector DBSCAN Algorithm to Cluster the Distribution of Urban Water Point.*International Review on Computers and Software (IRECOS)*, *8*(1), 170-173. (**3 puncte**)
2. Moraru, G., Istrate, M. (2017, June). Elements of energy efficiency in water supply systems. A case study. In Modern Power Systems (MPS), 2017 International Conference on (pp. 1-4). (**2 puncte**)

2.9.22. LUCRAREA:

Scarlatache, F., & Grigoras, G. (2014, October). Influence of wind power plants on power systems operation. In *Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on* (pp. 1010-1014). IEEE. (**15 puncte**)

a fost citata in lucrarile:

1. Ali, S. A., Nawaz, M. F., Bilal, M., Ahmad, F., & Hayat, U. Y. (2015, June). Modeling of wind power plant using MATLAB. In *Power Generation System and Renewable Energy Technologies (PGSRET), 2015* (pp. 1-5). IEEE. (**2 puncte**)
2. Wang, J., Fang, K., Pang, W., & Sun, J. (2017). Wind Power Interval Prediction Based on Improved PSO and BP Neural Network. Journal of Electrical Engineering & Technology, 12(3), 989-995. (**5 puncte**)
3. Igbinovia, F., Fandi, G., Ahmad, I., Muller, Z., & Tlusty, J. (2018). Modeling and Simulation of the Anticipated Effects of the Synchronous Condenser on an Electric-Power Network with Participating Wind Plants. Sustainability, 10(12), 4834. (**5 puncte**)
4. Ananwattanaporn, S., Ngaopitakkul, A., Jettanasen, C., Pothisarn, C., & Leelajindakrairerk, M. (2018). Influence of Wind Farm on Distribution System: Current Characteristics During Fault Occurrence. In Exergy for A Better Environment and Improved Sustainability (pp. 881-905). Springer, Cham. (**3 puncte**)

2.9.23. LUCRAREA:

Grigoras, G., Barbulescu, C., Cartina, G., & Comanescu, D. (2012). Human Errors Monitoring in Electrical Transmission Networks**,** *Journal of Energy and Power Engineering*, 6(3), 425-428. (**3 puncte**)

a fost citata in lucrarile:

1. Wójcicki, T. (2015), Synergy Model of Artificial Intelligence and Augmented Reality in the Processes of Exploitation of Energy Systems. *Journal of Energy and Power Engineering*, 10, 425-428. (**3 puncte**)

2.9.24. LUCRAREA:

Comanescu, D., Grigoras, G., Cartina, G., & Rotaru, F. (2010, May). Determination of typical load profiles in hydro-power plant by clustering techniques. In *Optimization of Electrical and Electronic Equipment (OPTIM), 2010 12th International Conference on* (pp. 1294-1297). IEEE. (**2 puncte**)

a fost citata in lucrarile:

Surai, J., & Surapatana, V. (2014, March). Load factor improvement in industrial sector using load duration curves. In *Electrical Engineering Congress (iEECON), 2014 International* (pp. 1-4). IEEE. (**2 puncte**)

2.9.25. LUCRAREA:

Kriukov, A., Grigoras, G., Gavrilas, M., Scarlatache, F., & Neagu, B. *(2014) Use of fuzzy techniques in reliability assessment of electric distribution systems*. in Proceedings of IEEE 16th international conference on harmonics and quality of power (ICHQP) (pp. 29–33) (**15 puncte**)

a fost citata in lucrarea:

1. Eduardo Verri Liberadoa, Fernando Pinhabel Marafãob, Marcelo Godoy Simõesc, Wesley Angelino de Souzaa, José Antenor Pomilioa (2015*),* Novel expert system for defining power quality compensators, *Expert Systems with Applications,* 42(7), 3562–3570. (**5 puncte**)
2. Suat Ozdemir, Metin Demirtaş, Serkan Aydin, Energy Distribution System Harmonic Estimation With Fuzzy Estimation Method, International Journal of Scientific Research in Information Systems and Engineering (IJSRISE) Vol. 2, no. 1, April-2016. **(3 puncte)**
3. Andruşcă, M., Adam, M., Baraboi, A., Dragomir, A., & Munteanu, A. (2014, October). Using fuzzy logic for diagnosis of technical condition of power circuit breakers. In Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on (pp. 268-273). IEEE. (**2 puncte**)
4. ShinyPradeepa, A., & Vaithilingam, C. (2017). Voltage Profile Assessment in Power Distribution System Using Generalized Regression Neural Network. Energy Procedia, 117, 209-215. (**5 puncte**)

2.9.26. LUCRAREA

Cârţină Gh, Hua-Song Y., Grigoraş Gh, *Optimal Operation and Planning of Power Systems,* Casa de Editura VENUS, Iasi, 2003: (**3 puncte**)

a fost citata in lucrarea:

1. Bobric, E. C., Irimia, D., Rata, G., & Rata, M. Planning and Management of the Power System Using Dsatools'software, *ANNALS of the ORADEA UNIVERSITY*, Fascicle of Management and Technological Engineering, Volume IX (XIX), 2010, NR1. (**3 puncte**)

2.9.27. LUCRAREA

Fl. Scarlatache, Gh. Grigoras (2012) An Approach Regarding the Placement Of Distributed Generation Sources In Electric Distribution Systems Using Hurwitz Criterion, *Buletinul Institului Politehnic din Iasi*, Seria Electrotehnica, Energetica, Tomul LVIII(LXII), 4, 109 – 117 (**3 puncte**)

a fost citata în lucrarea:

1. Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (**3 puncte**)

2.9.28. LUCRAREA

Grigoras G, Alexandrescu V, Cartina G. (2013), Estimation of Power/Energy Losses in Electric Distribution Systems based on an Efficient Method, *TELKOMNIKA Indonesian Journal of Electrical Engineering*, 11(9), 4854-4860 (**6 puncte**)

a fost citata in lucrarea:

1. Hui Gao, Yingjun Wu The Research Status and Development Trend of Electric Vehicle Power Supply Technology*, TELKOMNIKA Indonesian Journal of Electrical Engineering*, 12(11), 7690-7696. (**3 puncte**)
2. Mlakic, D., Nikolovski, S. N., & Knezevic, G. (2016). An Adaptive Neuro-Fuzzy Inference System

in Assessment of Technical Losses in Distribution Networks. International Journal of Electrical and Computer Engineering, 6(3), 1294-1304. (SCOPUS) (**3 puncte**)

2.9.29. LUCRAREA

Cartina G, Grigoras G, Bobric EC, Comanescu D (2009), Improved fuzzy load models by clustering techniques in optimal planning of distribution networks. In: PowerTech, 2009 IEEE Bucharest, pp 1, 6, June 28 2009–July 2 2009 (**15 puncte**)

a fost citata in lucrarea:

1. Hui Gao, Yingjun Wu Management of the Power Distribution Network Reconstruction Process Using Fuzzy Logic, Mirza Saric**,** Jasna Hivziefendic, Advanced Technologies, Systems, and Applications Volume 3 of the series Lecture Notes in Networks and Systems pp 155-172. (**5 puncte**)
2. Lezhniuk Peter Demyanovich, Rubanenko, Elena (2016) Valuation of Power Losses In Electrical Networks Of Agro-Industrial Complex by Criterion Method With Use Neuro-Fuzzy Modelling, New solutions in modern technology, vol 18, pp. 60-65. (Index Copernicus) (**3 puncte**)
3. Paul Zehetbauer, Matthias Stifter, Bharath Varsh Rao, Phase preserving profile generation from measurement data by clustering and performance analysis: a tool for network planning and operation, Computer Science - Research and Development, Special Issue Paper, pp. 1 – 11, 2017 (Springer) (**3 puncte**)
4. Franco, C., Nielsen, K., & Kerstens, P. J. (2018, July). Uncertainty management for classification and benchmarking of energy-use preference profiles. In 2018 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) (pp. 1-8). IEEE. (**1 punct**)
5. Carrión, D.; García, E.; González, J. W.; Isaac, I. A.; López, G. J.; Hincapié, R., Método Heurístico de Ubicación Óptima de Centros de Transformación y Enrutamiento de Redes Eléctricas de Distribución, Revista Técnica Energía . ene2017, Issue 13, p90-96. (**3 puncte**)

2.9.30 LUCRAREA

Vicol, B., Gavrilas, M., Ivanov, O., Neagu, B., & Grigoras, G. (2014, May). Synchrophasor measurement method for overhead line parameters estimation in MV distribution networks. In Harmonics and Quality of Power (ICHQP), 2014 IEEE 16th International Conference on (pp. 862-865). (**4 puncte**)

a fost citata in lucrarea:

1. Zelenskii, E. G., Kononov, Y. G., & Levchenko, I. I. (2016). Identification of the parameters of distribution networks by synchronized current and voltage measurements. Russian Electrical Engineering, 87(7), 363-368. (**3 puncte**)
2. Chishti, S. O. A., Naseem, S. A., Uddin, R., Saleem, M. H., & Naseem, S. W. Intelligent Control System to Identify Fault in Distribution Network of Smart Grid through Neural Network, 2019 4th International Electrical Engineering Conference (IEEC 2019), Jan, 2019 at IEP Centre, Karachi, Pakista. (**1 punct**)

2.9.31 LUCRAREA

Grigoraş, G., & Neagu, B. C. (2015). Market Clearing Price Forecasting in Deregulated Electricity Markets Using a Fuzzy Approach. Acta Electrotehnica, 56(3). (**2 puncte**)

a fost citata in lucrarea:

1. Dumbrava, V., Lazaroiu, G. C., Teliceanu, M., & Gilca, G. (2017, June). Educational software package for electricity market laboratory. In Modern Power Systems (MPS), 2017 International Conference on (pp. 1-5). IEEE. (**2 puncte**)

2.9.32 LUCRAREA

Banerjee, A., Chattopadhyay, S., Mukhopadhyay, A. K., & Gheorghe, G. (2016, March). A fuzzy-ACO algorithm to enhance reliability optimization through energy harvesting in WSN. In Electrical, Electronics, and Optimization Techniques (ICEEOT), International Conference on (pp. 584-589). IEEE. (**2 puncte**)

a fost citata in lucrarea:

1. Sharma, S., & Kushwah, R. S. (2017, March). Aco based wireless sensor network routing for energy saving. In Inventive Communication and Computational Technologies (ICICCT), 2017 International Conference on (pp. 150-154). IEEE. (**2 puncte**)

2.9.33 LUCRAREA

Grigoras, G., & Scarlatache, F. (2014, October). Knowlegde extraction from Smart Meters for consumer classification. In Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on (pp. 978-982). IEEE. (**11 puncte**)

a fost citata in lucrarile:

1. Biscarri, F., Monedero, I., García, A., Guerrero, J. I., & León, C. (2017). Electricity clustering framework for automatic classification of customer loads. Expert Systems with Applications, vol. 86, pp. 54 -63. (**5 puncte**)
2. Siemaszko, D., Speiser, M., (2017, September) Use of data-mining for non-invasive signature recognition in micro-grids: A preliminary approach applied to residential areas with PV converters, 19th European Conference on Power Electronics and Applications (EPE'17 ECCE Europe), Warsaw, Poland. (IEEE Xplore) (**1 punct**)
3. Panapakidis, I., & Christoforidis, G. (2018). Optimal Selection of Clustering Algorithm via Multi-Criteria Decision Analysis (MCDA) for Load Profiling Applications. Applied Sciences, 8(2), 237. (**5 puncte**)

2.9.34 LUCRAREA

Neagu Bogdan-Constantin, Gheorghe Grigoras, Assessment of Slow Voltage Variations from the Electric Distribution Systems with Fuzzy Techniques, ECAI 2015-International Conference — 7th Edition Electronics Computers and Artificial Intelligence 25 June-27 June, 2015. (**1 punct**)
a fost citata in lucrarea:

1. Anis Ur Rehman ; Muhammad Abid Mengal ; Ishtiaq Ahmad ; Atiq Ur Rehman ; Sheharyar Mehmood, Voltage fluctuations and very low voltage profile problems in distribution system under extreme load growth, Power and Energy Engineering Conference (APPEEC), 2016 IEEE PES Asia-Pacific, pp. 205 – 210, 2016, Xi'an, China. (**1 punct**)

2.9.35 LUCRAREA
Neagu, B. C., Grigoraş, G., Scarlatache, F. (2017, March). Outliers discovery from Smart Meters data using a statistical based data mining approach. In Advanced Topics in Electrical Engineering (ATEE), 2017 10th International Symposium on (pp. 555-558). IEEE. (**10 puncte**)
a fost citata in lucrarea:

1. Marzal, S., Salas, R., González-Medina, R., Garcerá, G., Figueres, E. (2017). Current challenges and future trends in the field of communication architectures for microgrids. Renewable and Sustainable Energy Reviews, 2017. (**5 puncte**)
2. Ge, M., Bangui, H., & Buhnova, B. (2018). Big data for internet of things: A survey. Future Generation Computer Systems, 87, 601-614. (**5 puncte**)

2.9.36 LUCRAREA
Grigoraș G, Gheorghe Cârțină (2013), The fuzzy correlation approach in operation of electrical distribution systems, The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, Vol. 32, Nr. 3, pp. 1044-1066 (**3 puncte**)
a fost citata in lucrarea:

1. Shahidah, N., Azni, A. H., Alwi, N. H. M., Seman, K., & Bakar, N. H. (2017). Systematic Literature Review: Correlated Fuzzy Logic Rules for Node Behavior Detection in Wireless Sensor Network. Journal of Telecommunication, Electronic and Computer Engineering (JTEC), 9(3-3), 109-115. (SCOPUS) (**3 puncte**)

2.9.37 LUCRAREA
Neagu, B. C., Grigoraş, G., & Scarlatache, F. (2016, June). The influence of harmonics on power losses in urban distribution networks. In Fundamentals of Electrical Engineering (ISFEE), 2016 International Symposium on (pp. 1-4). IEEE. (**4 puncte**)
a fost citata in lucrarea:

1. BOUM, A., SINGAMONGUE, G., & KOSGA, P. (2017). Modélisation et commande d'un filtre actif série en vue d'une compensation harmonique. Afrique SCIENCE, 13(1), 137-150. (**3 puncte**)
2. Vandana Jain, Bhim Singh, EGI Based Control for a Grid Tied Double Stage Solar PV System, 2018 8th IEEE India International Conference on Power Electronics (IICPE) (**1 punct**)

2.9.38 LUCRAREA
Grigoraş, G., Neagu, B. C., & Scarlatache, F. (2016, June). Estimation of energy losses in distribution transformers using a fuzzy approach. In Fundamentals of Electrical Engineering (ISFEE), 2016 International Symposium on (pp. 1-6). IEEE. (**3 puncte**)
a fost citata in lucrarea:

1. R.Sureshkumar, P.Maithili, THREE PHASE LOAD BALANCING AND ENERGY LOSS REDUCTION IN DISTRIBUTION NETWORK USING LABIEW, International Journal of Pure and Applied Mathematics, Vol. 116 No. 11 2017, 181-189 (**3 puncte**)

2.9.39 LUCRAREA
Neagu, B. C., Grigoraş, G., & Scarlatache, F. (2017, March). Outliers discovery from Smart Meters data using a statistical based data mining approach. In Advanced Topics in Electrical Engineering (ATEE), 2017 10th International Symposium on (pp. 555-558). IEEE. (**8 puncte**)
a fost citata in lucrarea:

2. Marzal, S., Salas, R., González-Medina, R., Garcerá, G., & Figueres, E. (2017). Current challenges and future trends in the field of communication architectures for microgrids. Renewable and Sustainable Energy Reviews. (**5 puncte**)
3. Ge, M., Bangui, H., & Buhnova, B. (2018). Big Data for Internet of Things: A Survey. Future Generation Computer Systems. (**3 puncte**)

2.9.40 LUCRAREA
Scarlatache, F., Grigoraş, G., Chicco, G., & Cârţină, G. (2012, May). Using k-means clustering method in determination of the optimal placement of distributed generation sources in electrical distribution systems. In Optimization of Electrical and Electronic Equipment (OPTIM), 2012 13th International Conference on (pp. 953-958). IEEE. (**12 puncte**)
a fost citata in lucrarea:

1. Jinjin, D., Hao, Z., Qian, Z., Guoli, L., & Binbin, L. (2017, July). Clusters Partitioning of Distribution Network with Distributed Renewable Generators. In 2017 IEEE 7th Annual International Conference on CYBER Technology in Automation, Control, and Intelligent Systems (CYBER) (pp. 1324-1328) (**2 puncte**)
2. Penangsang, O., Putra, D. F. U., & Kurniawan, T. (2017, August). Optimal placement and sizing of distributed generation in radial distribution system using K-means clustering method. In Intelligent Technology and Its Applications (ISITIA), 2017 International Seminar on (pp. 98-103). IEEE. (**2 puncte**)
3. Surbhi Bakshi, Tilak Thakur, Rintu Khanna Investigation on Optimal Placement and Sizing Of Distributed Generation Units Using Optimization Technique, Research Cell : An International Journal of Engineering Sciences, vol. 26, no. December 2017, pp. 137 – 142. (**3 puncte**)
4. Milton, M. A., Pedro, C. O., Xavier, S. G., & Guillermo, E. E. (2018). Characterization and

Classification of Daily Electricity Consumption Profiles: Shape Factors and k-Means Clustering Technique. In E3S Web of Conferences (Vol. 64, p. 08004). EDP Sciences. (**1 punct**)

5. Ren, H., & Schulz, N. N. (2018, September). An Improved DBSCAN Method for Self-sufficient Microgrid Design. In 2018 North American Power Symposium (NAPS) (pp. 1-6). (**1 punct**)
6. Carrión, D.; García, E.; González, J. W.; Isaac, I. A.; López, G. J.; Hincapié, R., Método Heurístico de Ubicación Óptima de Centros de Transformación y Enrutamiento de Redes Eléctricas de Distribución, Revista Técnica Energía . ene2017, Issue 13, p90-96. (**3 puncte**)

2.9.41 LUCRAREA
Grigoras, G., Neagu, B. C., Scarlatache, F., & Ciobanu, R. C.,Identification of pilot nodes for secondary voltage control using K-means clustering algorithm. In Industrial Electronics (ISIE), 2017 IEEE 26th International Symposium on, pp. 106-110, 2017 (**3 puncte**)
a fost citata in lucrarea:

1. Lopera-Mazo, E. H., & Espinosa, J., Secondary voltage regulation based on average voltage control. TecnoLógicas, vol. 21, no. 42, pp. 63-78, 2018. (**3 puncte**)

2.9.42 LUCRAREA
Gheorghe Grigoraș, Cecilia Barbulescu, Human errors monitoring in electrical transmission networks based on a partitioning algorithm, International Journal of Electrical Power and Energy Systems, vol. 49, pp. 128–136, 2013, (**4 puncte**)
a fost citata in lucrarea:

1. Song, B., Wang, Z., Lu, Y., Teng, X., Chen, X., Zhou, Y., ... & Fu, S. (2018, July). A Multidimensional Workload Assessment Method for Power Grid Dispatcher. In International Conference on Engineering Psychology and Cognitive Ergonomics (pp. 55-68). Springer, Cham (**1 punct**)
2. Beata Mrugalska, Salman Nazir, Edwin Tytyk & Kjell Ivar Øvergår, Human error and response to alarms in process safety, DYNA, Vol. 83, Nr. 197, p. 81-86, 2016. (**3 puncte**)

2.9.43 LUCRAREA
Florina Scarlatache, Gheorghe Grigoraş, Bogdan-Constantin Neagu, Cristina Schreiner, Romeo Ciobanu, Influence of hybrid energy systems on micro-grids control, 2017 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 313 – 317, 2017 (**1 punct)**
a fost citata in lucrarea:

1. Adachi, T., & Yachi, T. (2018, December). Dependence of Electrical Power Leveling Characteristics on Battery Discharge Rate in a Microgrid. In 2018 International Conference on Smart Grid (icSmartGrid) (pp. 23-27). IEEE. (**1 punct**)

2.9.44 LUCRAREA
Florina Scarlatache, Gheorghe Grigoraș, Placement of DG sources using a clustering based partitioning method in distribution systems, 2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 868 – 872, 2015 (**5 puncte**)
a fost citata in lucrarea:

1. Mehmood, K. K., Kim, C. H., Khan, S. U., & Haider, Z. M. (2018). Unified Planning of Wind Generators and Switched Capacitor Banks: A Multiagent Clustering-Based Distributed Approach. IEEE Transactions on Power Systems, 33(6), 6978-6988. (**5 puncte**)

2.9.45 LUCRAREA
Bogdan-Constantin Neagu, Gheorghe Grigoraş, Florina Scarlatache, Cristina Schreiner, Romeo Ciobanu, Patterns discovery of load curves characteristics using clustering based data mining, 2017 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 83 – 87 (**1 punct**)
a fost citata in lucrarea:

1. Qi, J., Xiao, B., & Chen, Y. (2018, July). I-CFSFDP: A Robust and High Accuracy Clustering Method Based on CFSFDP. In 2018 37th Chinese Control Conference (CCC) (pp. 9124-9129). IEEE (**1 punct**)

2.9.46 LUCRAREA
Gheorghe Grigoraș, Ovidiu Ivanov; Mihai Gavrilas, Customer classification and load profiling using data from Smart Meters, 12th Symposium on Neural Network Applications in Electrical Engineering (NEUREL), Belgrad, Serbia, pp. 73-78, 2014 (**6 puncte**)
a fost citata in lucrarea:

1. Tushar, M. H. K., Zeineddine, A. W., & Assi, C. (2018). Demand-side management by regulating charging and discharging of the EV, ESS, and utilizing renewable energy. IEEE Transactions on Industrial Informatics, 14(1), 117-126. (**5 puncte**)
2. Mingyue Zhai (2017), On the Research of the Smart Grid Load Forecasting Cloud Platform Architecture, 7th International Conference on Mechatronics, Computer and Education Informationization (MCEI 2017), pp 546 – 550 (**1 punct**)

2.9.47 LUCRAREA
Gheorghe Grigoraș, Florina Scarlatache, Bogdan-Constantin Neagu, Analysis of energy saving solutions based on replacement of distribution transformers, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, pp. 66 – 71, 2017 (**2 puncte**)
a fost citata in lucrarea:

1. Lepadat, I., Helerea, E., Abagiu, S., & Mihai, C. (2017, October). Losses in power supply system of industrial consumers—A technical and economic issue. In 2017 5th International Symposium on Electrical and Electronics Engineering (ISEEE) (pp. 1-6). IEEE. (**2 puncte**)

	2.9.48 LUCRAREA Gheorghe Grigoraș, Bogdan-Constantin Neagu, Florina Scarlatache, Smart metering based approach for phase balancing in low voltage distribution systems, 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 551 -554, 2017 (**2 puncte**) a fost citata in lucrarea: 1. Toma, N., Ivanov, O., Neagu, B., & Gavrila, M. (2018, October). A PSO Algorithm for Phase Load Balancing in Low Voltage Distribution Networks. In 2018 International Conference and Exposition on Electrical And Power Engineering (EPE) (pp. 0857-0862). IEEE. (**2 puncte**) 2.9.49 LUCRAREA Bogdan-Constantin Neagu, Gheorghe Grigoraș, An Efficient Metaheuristic Algorithm for Optimal Capacitor Allocation in Electric Distribution Networks, 2017 2nd International Conference on Software, Multimedia and Communication Engineering (SMCE 2017), Shanghai, China, pp. 327- 332, 2017 (**2 puncte**) a fost citata in lucrarea: Neagu, B. C., Gavrilaş, M., & Matei, G. G. (2018, June). Voltage/VAR Control with Reactive Power Injection in Distribution Networks using a Proper Metaheuristic Approach. In 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC/I&CPS Europe) (pp. 1-6). IEEE. (**2 puncte**)	
	2.11. Finalizare teză de doctorat **Realizări** **:**	**0**
	2.12. Elaborare standarde **Realizări:**	**0**
Total punctaj Criteriu 2		**1508.09**
3. Recunoaşterea naţională şi internaţională (minimum: • 15 puncte prof.; • 10 puncte conf.; • 5 puncte ș. l.)	**3.1**. Profesor invitat pentru prelegeri la univ. de prestigiu **Realizări:**	**0**
	3.2. Membru în academii (Academia Română, Academia de Ştiinţe Tehnice, Academia de Ştiinţe Agricole şi Silvice, Academia Oamenilor de Ştiinţă etc.) **Realizări:**	**0**
	3.3. Doctor Honoris Causa **Realizări:**	**0**
	3.4. Membru în societăţi ştiinţifice şi profesionale **Realizări:** 3.4.1. AGIR (Romania) 3.4.2. SETIS (Romania) 3.4.3. International Association of Engineers (IAENG) 3.4.4. World Academy of Science, Engineering and Technology WASET	**30**
	3.5. Membru în comisii de doctorat **Realizări:**	**0**
	3.6. Membru în colective de redacţie ale revistelor **Realizări:** **Reviste incluse în BDI** 3.6.1. *Journal of Network and Communication Technologies, Canada* (http://www.ccsenet.org/journal/index.php/nct/about/editorialTeam) 3.6.2. International Journal of Intelligent Information Systems http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=135 3.6.3. The Research Journal of Artificial Intelligence and Machine Learning (https://uniquepubinternational.com/upi-journals/research-journal-artificial-intelligence-machine-learning-rjaiml/editorial-board-rjaiml/) 3.6.4. Inventi Journals (https://www.inventi.in) 3.6.5. SCIREA Journal of Energy http://www.scirea.org/journal/EditorialBoard?JournalID=48000	**50**
	3.7. Membru în comitete ştiinţifice naţionale/ internaţionale/ de program (la congrese, conferinţe etc.) **Realizări:** 1. 2nd Annual International Conference on Artificial Intelligence and Computer Engineering (AICE2018), Xi'an, Shaanxi, China, 18-20 May, 2018, http://www.aice2018.net/?op=committee 2. Computing Conference 2018, 10-12 July 2018, London, UK, http://saiconference.com/Conferences/Computing2018 3. 5th Annual Conf. on Computational Science & Computational Intelligence (CSCI'18) | Dec 13-15, 2018 | Las Vegas, Nevada, USA https://americancse.org/events/csci2018/committees 4. Future Technologies Conference (FTC) 2018, Vancouver , BC, Canada, 13-14 November 2018, http://saiconference.com/Conferences/FTC2018 5. Intelligent Systems Conference 2018 (IntelliSys 2018), 6-7 September 2018, London, UK, http://saiconference.com/Conferences/IntelliSys2018 6. 2018 International Conference on Power, Energy and Intelligent Materials (PEIM2018), June 29-30, 2018 in Wuzhen, China, http://www.peim2018.org/com.html 7. The International Conference on Network Engineering and Information Security (NEIS2018), April 20th - 22nd, 2018, Wuhan, China, http://www.neis2018.org/?op=committee 8. The 3rd International Conference on New Energy and Future Energy System, August 21st - 24th, 2018, Shanghai, China, http://www.intergridconf.org/2018/Committee.html 9. 2018 International Conference on Materials, Sensors and Smart Manufacturing September 16-17, 2018 in Xiamen, China, http://mssm2018.org/com.html 10. 2018 International Conference on Information Science and Technology (IST2018), Wuhan,	**100**

	China,during April 20th-22nd, 2018, http://www.icist2018.org/?op=committee	
	3.8. Membru în echipe de expertizare / evaluare a cercetării ştiinţifice (proiecte CNCS, PNCDI II, FP7, Phare; centre de cercetare etc.) **Realizări:** **Evaluator ARUT – 3 granturi evaluate (15 puncte)**	**15**
	3.9. Membru în echipe de expertizare (evaluare) a procesului educaţional (ARACIS, EUA etc.) **Realizări:**	**0**
	3.10. Membru în consilii naţionale de specialitate **Realizări:**	**0**
	3.11. Organizator de manifestări ştiinţifice naţionale / internaţionale / sesiuni invitate **Realizări:**	**0**
	3.12. Referent ştiinţific / expert naţional şi internaţional (pentru reviste, congrese etc.) **Realizări:** **Jurnale Internationale ISI (990 puncte)** *Energy* - 25 recenzii (**220 puncte**) 1. Incorporating combined cycle gas turbine flexibility constraints and additional costs into the EPLANopt model: the Italian case study EGY-D-17-06776 2. Has China's coal consumption already peaked? A demand-side analysis based on hybrid prediction models EGY-D-17-05873 3. Fuzzy decision based energy dispatch in offshore industrial microgrid with desalination process and multi-type DGs EGY-D-17-04259R1 4. Decentralized Optimal Multi-Energy Flow of Large-Scale Integrated Energy Systems in a Carbon Trading Market EGY-D-17-04528R1 5. Integration of renewable energy and demand response technologies in interconnected energy systems EGY-D-18-00101 6. A randomized-algorithm-based decomposition-ensemble learning methodology for energy price forecasting EGY-D-17-01891R1 7. A stochastic programming approach toward optimal design and planning of an integrated green biodiesel supply chain network under uncertainty: A case study EGY-D-17-03156R1 8. Subsampled support vector regression ensemble for short term electric load forecasting EGY-D-17-02675R2 9. Incorporating combined cycle gas turbine flexibility constraints and additional costs into the EPLANopt model: the Italian case study EGY-D-17-06776R1 10. Energy Saving Techniques and Measurements in Green Wireless communication EGY-D-17-03268R1 11. Has China's coal consumption already peaked? A demand-side analysis based on hybrid prediction models EGY-D-17-05873R1 12. A novel intelligent method to optimally charging of electric vehicles based on load scheduling in power networks EGY-D-18-01274 13. Energy Saving Techniques and Measurements in Green Wireless communication EGY-D-17-03268R2 14. Integration of renewable energy and demand response technologies in interconnected energy systems EGY-D-18-00101R1 15. An improved NSGA-III integrating adaptive elimination strategy to solution of many-objective optimal power flow problems EGY-D-18-05063 16. Solving non-convex economic load dispatch problem via artificial cooperative search algorithm EGY-D-18-04229 17. Effective energy consumption forecasting using echo state network bagging ensemble hybrid modeling EGY-D-18-04353 18. The Novel Effects of Parking Lot and Pumped Storage on Smart Grid Unit Commitment Based on a Heuristic Optimization Algorithm EGY-D-18-05976 19. Analysis of thermal and flow phenomena in natural circulation boiler evaporator EGY-D-18-06192 20. An improved NSGA-III integrating adaptive elimination strategy to solution of many-objective optimal power flow problems EGY-D-18-05063R1 21. U.S. Monthly Energy Consumption Forecasting Based on an Ensemble Autoregressive Moving Average - Adaptive Neuro - Fuzzy Inference System - Neural Network - Genetic Algorithm Framework EGY-D-18-07701 22. Analysis of thermal and flow phenomena in natural circulation boiler evaporator EGY-D-18-06192R1 *Journal of Computational Science* – 2 recenzii (**20 puncte**) 1. Control optimization of an aerial robotic swarm in a search task and its adaptation to different scenarios (JOCS_2018_784_R1) 2. Control optimization of an aerial robotic swarm in a search task and its adaptation to different scenarios (JOCS_2018_784) *Energies* – 21 recenzii (**490 puncte**) 1. The study of a Battery Energy Storage System Based on the Hexagonal Modular Multilevel Direct AC/AC Converter (Hexverter) (energies-262863) 2. Transformers Health Index Assessment Based on Neural-Fuzzy Network (energies-269584) 3. Transformers Health Index Assessment Based on Neural-Fuzzy Network (energies-269584R1) 4. Transformers Health Index Assessment Based on Neural-Fuzzy Network (energies-269584R2) 5. Grey Wolf Optimization Based Optimum Energy Management and Battery Sizing Method for Grid-Connected Microgrids (energies-281103) 6. Grey Wolf Optimization Based Optimum Energy Management and Battery Sizing Method for Grid-Connected Microgrids (energies-281103R1)	**1220**

7. Grey Wolf Optimization Based Optimum Energy Management and Battery Sizing Method for Grid-Connected Microgrids (energies-281103R2)
8. A High-efficiency Charging Service System for Plug-in Electric Vehicles Considering the Capacity Constraint of the Distribution Network (energies-287350)
9. A review on battery charging and discharging control strategies: Application to renewable energy systems (energies-290400)
10. A review on battery charging and discharging control strategies: Application to renewable energy systems (energies-290400R1)
11. Optimized daily dispatching strategy of building integrated energy system considering V2G and room temperature control (energies-300080)
12. Optimized daily dispatching strategy of building integrated energy system considering V2G and room temperature control (energies-300080R1)
13. Research on the Power Demand Suppression Method Based on Charging Optimization and BESS Configuration for Fast-charging Stations in Beijing (energies-304699)
14. Jaya Based Optimization Method with High Dispatchable Distributed Generation for Residential Microgrid (
15. energies-311424)
16. A Maintenance Cost Study of Transformers based on Markov Model Utilizing Frequency of Transition Approach (energies-321441)
17. A Maintenance Cost Study of Transformers based on Markov Model Utilizing Frequency of Transition Approach (energies-321441R1)
18. Novel Distributed Optimal Control of Battery Energy Storage System in Islanded Microgrid with Fast Frequency Recovery (energies-326767)
19. Novel Distributed Optimal Control of Battery Energy Storage System in Islanded Microgrid with Fast Frequency Recovery (energies-326767R1)
20. Ventilation system influence on hydrogen explosion hazards in industrial lead-acid battery rooms (energies-333961)
21. Ventilation system influence on hydrogen explosion hazards in industrial lead-acid battery rooms (energies-333961R1)
22. Research on the application of improved estimation of distribution algorithm in distributed generation (energies-342418)
23. Research on the application of improved estimation of distribution algorithm in distributed generation (energies-342418R1)
24. Performance Analysis of Hybridization of Heuristic Techniques for Residential Load Scheduling (energies-353212)
25. Performance Analysis of Hybridization of Heuristic Techniques for Residential Load Scheduling (energies-353212R1)
26. Driven primary regulation for minimum power losses operation in islanded microgrids (energies-358410)
27. Driven primary regulation for minimum power losses operation in islanded microgrids (energies-358410R1)
28. Hybrid Imperialist Competitive-Grey Wolf Algorithm to solve Multiobjective Optimal Power Flow with Wind and Solar Units (energies-369488)
29. A review of the energy performance and life-cycle assessment of building-integrated photovoltaic (BIPV) systems (energies-376294)
30. A review of the energy performance and life-cycle assessment of building-integrated photovoltaic (BIPV) systems (energies-376294R1)
31. Life cycle estimation of battery energy storage systems for primary frequency regulation (energies-385432)
32. Life cycle estimation of battery energy storage systems for primary frequency regulation (energies-385432R1)
33. Sharing energy data for research: A brief survey of consumer perspectives (energies-390046)
34. Robust Tracking Control of a Three-phase Charger under Unbalanced Grid Condition (energies-393580)
35. Robust Tracking Control of a Three-phase Charger under Unbalanced Grid Condition (energies-393580R1)
36. Multiple DGs for reducing total power losses in radial distribution systems using hybrid WOA–SSA algorithm (energies-399340)
37. Multiple DGs for reducing total power losses in radial distribution systems using hybrid WOA–SSA algorithm (energies-399340R1)
38. A Frequency Estimation Method Based on a Revised 3-Level Discrete Fourier Transform and Difference Equations with a Tracking Delay Reduction Technique (energies-405446)
39. Short term load forecasting using a novel deep learning framework (energies-299555)
40. Short term load forecasting using a novel deep learning framework (energies-299555R1)
41. Study on Impulse Breakdown Characteristics of Internal-Gap Lightning Protection Device Applied to 35kV Distribution Line (energies-318091)
42. Study on Impulse Breakdown Characteristics of Internal-Gap Lightning Protection Device Applied to 35kV Distribution Line (energies-318091R1)
43. A robust control of two-stage grid-tied PV systems employing Integral Sliding mode theory (energies-355172)
44. Study of the intelligent behaviour of a maximum photovoltaic energy tracking fuzzy controller (energies-381536)
45. Study of the intelligent behaviour of a maximum photovoltaic energy tracking fuzzy controller (energies-381536R1)
46. Hybrid Short-Term Load Forecasting Scheme Using Random Forest and Multilayer Perceptron (energies-389852)
47. Hybrid Short-Term Load Forecasting Scheme Using Random Forest and Multilayer Perceptron (energies-389852R1)

48. Short-term Load Forecasting in Smart Grids: An Intelligent Modular Approach (energies-396387)
49. Direct digital design of PIDF controllers with complex zeros for DC-DC buck converter (energies-403329)

IET The Journal of Engineering – 5 recenzii (**50 puncte**)

1. Study on the Life Cycle Energy Consumption and Carbon Balance Capacity of Timber Structure Building (JOE-2018-5251)
2. Study on the Life Cycle Energy Consumption and Carbon Balance Capacity of Timber Structure Building (JOE-2018-5251.R1)
3. A Mathematical model approach in the engineering industry for production planning problem: A case study (JOE-2018-5150)
4. Study on the Life Cycle Energy Consumption and Carbon Balance Capacity of Timber Structure Building (JOE-2018-5251.R2)
5. Study on the Life Cycle Energy Consumption and Carbon Balance Capacity of Timber Structure Building (JOE-2018-5251.R3)

3.12.7. COMPEL - The international journal for computation and mathematics in electrical and electronic engineering - 2 recenzii (**20 puncte**)

1. Multi-Objective ant lion optimization algorithm to solve large-scale multi-objective optimal reactive power dispatch problem (COMPEL-05-2018-0208)
2. Multi-Objective ant lion optimization algorithm to solve large-scale multi-objective optimal reactive power dispatch problem (COMPEL-05-2018-0208R1)

International Journal of Advanced Computer Science and Applications (http://thesai.org/Publications/Citations?code=IJACSA) - 3 recenzii (**30 puncte**)

1. A new uncertainty measure in belief entropy framework
2. Assessing the impact of information on wealth distribution: a complex systems approach
3. Secure Digital Databases using Watermarking based on English-Character Attributes

I*ET Renewable Power Generation (https://digital- library.theiet.org/content/journals/iet-rpg* – 3 recenzii (**30 puncte**)

1. Modelling of a Thermo-electric Energy Management System including Heat Pumps for an Off-Grid System (RPG-2018-5505)
2. Smart Demand Management Algorithm for Distinctive Residential Loads ro Enhance the Resiliency in Rural Islanded Microgrids (RPG-2018-5864)
3. Modelling of a Thermo-electric Energy Management System including Heat Pumps for an Off-Grid System (RPG-2018-5505.R1)

IET Generation, Transmission & Distribution (https://digital-library.theiet.org/content/journals/iet-gtd) 2 recenzii (**20 puncte**)

1. Comparative Study on Supplied and Loss Energy Computations Utililizing Numerical Integrations (GTD-2018-6526)
2. Electricity Consumption Behaviour Analysis Based on Adaptive Weighted – Feature Kmeans – Affinity Propagation Clustering (GTD-2018-5286.R1)

IET Communications (https://digital-library.theiet.org/content/journals/iet-com) 2 recenzii (**20 puncte**)

1. A Distributed Energy Efficient Algorithm for Ensuring Coverage of Wireless Sensor Networks (COM-2018-5329)
2. A Distributed Energy Efficient Algorithm for Ensuring Coverage of Wireless Sensor Networks (COM-2018-5329.R1)

IEEE Transactions on Sustainable Computing - 2 recenzii (**20 puncte**)
(http://ieeexplore.ieee.org/xpl/aboutJournal.jsp?punumber=7274860#AimsScope)

1. A Privacy-Preserving Aggregation Scheme Based on Negative Surveys for Smart Meters (TSUSC-2018-01-0004)
2. A Privacy-Preserving Aggregation Scheme Based on Negative Surveys for Smart Meters (TSUSC-2018-01-0004.R1)

Mathematical Problems in Engineering (https://www.hindawi.com/journals/mpe) **- 3 recenzii (30 puncte)**

1. Comparing sequential with combined spatiotemporal clustering of passenger trips in the public transit network using smart card data (5070794)
2. Comparing sequential with combined spatiotemporal clustering of passenger trips in the public transit network using smart card data (5070794R1)
3. A New Binary Adaptive Elitist Differential Evolution based Automatic k-medoids Clustering for Probability Density Functions (6380568)

IEEE Transactions on Industrial Electronics
https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=41 4 recenzii (**40 puncte**)

1. Multi-Task Bayesian Spatiotemporal Gaussian Processes for Short-term Load Forecasting (18-TIE-2829)
2. Multi-Task Bayesian Spatiotemporal Gaussian Processes for Short-term Load Forecasting (18-TIE-2829.R1)
3. On Open Source Framework for Smart Meters: Data Communication and Security Traffic Analysis ((18-TIE-2829)
4. On Open Source Framework for Smart Meters: Data Communication and Security Traffic

Analysis ((18-TIE-2829.R1)

Jurnale Internationale BDI (95 puncte)

Recent Advances in Electrical and Electronic Engineering (https://benthamscience.com/journals/recent-advances-in-electrical-and-electronic-engineering/) – 5 recenzii (**25 puncte**)

1. Power Loss Minimization of Distribution Network of Jaipur City by DG and Capacitor Allocation (BMS-EENG-2018-35)
2. ANFIS Controller Design of DFIS under Distorted Grid Voltage Situations (BMS-EENG-2018-37)
3. An Equivalent Magnetic Circuit Model of the PMSM Demagnezation Fault ((BMS-EENG-2018-43)
4. Full-Duplex NOMA for D2D Transmission: Relay Section Model and Performance Analysis (BMS-EENG-2018-93)
5. Observer-based multiplicative passive control for a class of uncertain time delay sampled-data system (BMS-EENG-2018-139)

Journal of Electrical Engineering, Electronics, Control and Computer Science (https://jeeeccs.net/index.php/journal) – 1 recenzie (**5 puncte**)

1. Application for collecting data from sensors and transmitting them through the network (111-412-1-RV)

Journal of Economics, Management and Trade (http://www.sciencedomain.org/journal/66/abstracting-indexing) – 2 recenzii (**10 puncte**)

1. World Energy Consumption: regional differences and features of change (Ms_JEMT_40232)
2. Growth, Electric Power Consumption Externalities and Patterns of Localization of Emissions (Ms_JEMT_44455)

Journal of Basic and Applied Research international– 1 recenzie (**5 puncte**)

1. Application of Energy Storage and Demand Response for Peak Shaving/Load Leveling in A Smart Distribution System (Ms_JOBARI_6384)

WSEAS Transactions on Systems and Control Journal (SCOPUS) (http://www.wseas.com/journal/systems-control.html) - 1 recenzie (**5 puncte**)

1. Anti Windup PI Regulator Based Modified Power Balance Theory for SAPF Under Unbalanced Grid Voltage Unbalance Non Linear Loads (5103-818)

WSEAS Transactions on Circuits and Systems http://wseas.org/cms.action?id=2861 - 2 recenzii (**10 puncte**)

1. Cyber Security Measures In Companies (5903-712)
2. Nonlinear Observer-Based Control for Three phase Grid Connected Photovoltaic System (5103-789)

WSEAS Transactions on Power Systems (http://www.wseas.com/journal/power-systems.html) - 6 recenzii (**30 puncte**)

1. Power Flow Analysis for IEEE 30 Bus Distribution System (5916-585)
2. Optimization of a Growing Electrical Power System (5903-702)
3. Risk Management of Overhead Electric Power Lines (5916-586)
4. Load Frequency Control of Three Area System using FOPID Controller (5916-591)
5. Parallel Operation Of Two Single-Phase Rectifiers With Three-Phase Inverter By Implementing Generalized SVPWM (5916-593)
6. Generation and Demand Scheduling in a Micro-grid with Battery-based Storage Systems, Hybrid Renewable Systems and Electric Vehicle Aggregators (5116-614)

Network and Communication Technologies (http://www.ccsenet.org/journal/index.php/nct/about/editorialPolicies#custom-0) – 1 recenzie (**5 puncte**)

1. Redesigning Academic Website for Better Visibility and Footprint: A Case of the Federal University o Petroleum Resources Effurun Website (NCT_72775)

Conferinte Internationale (135 puncte)

a. Conferinte Internationale – ISI (75 puncte)

10th International Conference on Electronics, Computers and Artificial Intelligence, Ploiesti, Romania, 2018 (http://www.ecai.ro) – 4 recenzii (**20 puncte**)

1. Artificial Intelligence Computational Basic Models and Analysis for Power Delivery Safety and Efficiency Evaluation (ID 65)
2. Mobile application for a smart city (ID 70)
3. Improving the quality of web applications through targeted usability enhancements (ID 89)
4. Intelligent Monitoring System To Combat Water Stress In Plant Crops (ID 130)

10th International Conference and Exposition on Electrical Engineering (EPE 2018), Iasi, Romania, 2018 http://www.epe.tuiasi.ro/2018/ - 6 recenzii (**30 puncte**)

1. Management of the Electrical Energy Distribution Network (ID 2456)
2. A multi-objective approach to improve hydropower dispatching (ID 2480)
3. Solution to improve the quality of electricity in low voltage networks (ID 2724)
4. Optimal Demand Response Allocation in LV Distribution Networks Using the PSO Algorithm (ID 2776)
5. Voltage Stability Assessment based on a Load Flow Sensitivity Method (ID 2814)

	6. A PSO Algorithm for Phase Load Balancing in Low Voltage Distribution Networks (ID 3201) *SAI Computing Conference 2018, London, UK, 2018* *http://saiconference.com/Conferences/Computing2018* - 5 recenzii (**25 puncte**) 1. User centric mobile based Decision Making System using natural Language Processing (NLP) and Aspect Based Opinion Mining (ABOM) Techniques for Restaurant Selection (ID 6) 2. The (Un) Lawfulness of Autonomous Weapons (ID19) 3. On Requirements for events Processing Network Models using Business Event Modeling Notation (ID 41) 4. Minimum Spanning Tree Problem with Single-Valued Trapezoidal Neutrosophic Numbers (ID 141) 5. Hybrid Vehicular Network System for the Malfunctioned Vehicles over Highways (Id 338) **b. Conferinte Internationale – BDI(60 puncte)** *The 4th International Conference on Fuzzy Systems and Data Mining, Bangkok, Thailanda, 2018 (http://www.fsdmconf.org/2018/)* 1 recenzie (**3 puncte**) 1. Living Safety for Diversity in the Era of IoT and Artificial Intelligence (FSDM2602) *Future Technologies Conference (FTC) 2018, Vancouver, Canada, 2018,* *https://saiconference.com/Conferences/FTC2018* 6 recenzii (**18 puncte**) 1. A systematic review of time series based spam identification techniques (ID 7) 2. A path to AI (ID 14) 3. Maximizing Deviation Based Grey Relational Analysis Method for Solving Neutrosophic MCGDM Problems with Insufficient Weight Information (ID 16) 4. Improving Functional Characterization and Clustering of Genes via Biomedical Literature Mining (ID 345) 5. Development Of Partial Shading Detection Algorithm In Real Time PV Panels (ID 361) 6. Fuzzy Logic Approach to predicting unsafe worksites: Exploiting Injuries frequency (ID 434) *2nd Annual International Conference on Artificial Intelligence and Computer Engineering [AICE2018], May 18-20, 2018 in Xi'an, Shaanxi, China (http://www.aice2018.net/)* 5 recenzii (**15 puncte**) 1. An application of stochastic time strength RBF neural network to predicting spot prices of crude oil (A98) 2. Design and implementation of energy saving brake system (A150) 3. Research on XUL-SQL in Enterprise Information Platform (A151) 4. A negative DC voltage generator for sub-micron process circuits (A152) 5. An 14-bit ultra low power ADCs for sensor measurement (A153) *The Third International Conference on Energy Engineering and Environmental Protection (EEEP2018)* *http://www.iceeep.org/2018/Default.aspx* - 1 recenze(**3 puncte**) 1. A Two-Layer Electric Energy Substitute Planning Model with the Rationality of Regional and Annual Target (EEEP29096) *The 2018 International Conference on Information Science and Technology, Wuhan, China, 2018 (http://www.icist2018.org/* - 2 recenzii (**6 puncte**) 1. A Lane Detection Technique Based on Adaptive Threshold Segmentation of Lane Gradient Image (IST1842) 2. Functional Safety Design of Four-Wheel Independent Brake System on Electric Vehicle (IST1810) *The 2018 International Conference on Software Engineering and Service Science (http://www.icsess2018.org/)* - 3 recenzii (**9 puncte**) 1. Research and Practice on Performance Test of Call Center Platform System (ICS122) 2. A Research on the Stability and Support Technology of Pit in Half Water in the Soft Soil Foundation (ICS125) 3. How Service Interaction Quality Affects Customer Loyalty in an Experience Service Environment: A Conceptual Model Based on Customer Experience Quality (ICS135) *The Third International Conference on Energy Engineering and Environmental Protection (EEEP2018) http://www.iceeep.org/2018/Default.aspx*- 1 recenze(**3 puncte**) 1. A Two-Layer Electric Energy Substitute Planning Model with the Rationality of Regional and Annual Target (EEEP29096) *The 3rd International Conference on New Energy and Future Energy System, August 21st - 24th, 2018, Shanghai, China (http://www.intergridconf.org/2018/)*- 1 recenze(**3 puncte**) 1. Analysis of distribution network node vulnerability considering DGs (FES1925)	
	3.13. Membru în comisii de concurs pentru posturi didactice universitare **Realizări:**	**0**
	3.14. Membru în jurii, comisii, concursuri profesionale **Realizări:**	**0**
	3.15. Cercetător invitat pentru activităţi de cercetare în universităţi/firme de prestigiu	**0**
	3.16. Cadru didactic invitat în programe ERASMUS (prelegeri)	**0**
	3.17. Cadru didactic care gestioneaza acorduri bilaterale ERASMUS	**0**
	3.18. Premii	**0**
Total punctaj Criteriu 3		**1415**

4. Activitatea cu studenţii*) (minimum: • 10 puncte prof.; • 7 puncte conf.; • 5 puncte ș.l.)	**4.1.** Conducere cercuri ştiinţifice studenţeşti **Realizări:** 4.1.1. **2 lucrari**: Estimarea sarcinii in nodurile retelelor electrice de medie tensiune Ungureanu Lucian, anul IV, ISE Strategii de modernizare in retelele electrice de distributie Ababei Lucian, anul IV, IM	**6**
	4.2. Pregătire pentru concursuri profesionale (pentru fazele naţională şi internaţională) **Realizări:**	**0**
	4.3. Conducere lucrări de absolvire[2)], licenţă (diplomă), disertaţie, doctorat (inclusiv cotutelă, membri în echipa de îndrumare) **Realizări:** 4.3.1. 3 *lucrari de disertatie* (**15 puncte**) Marcel Valentin Tamas, MSE Razvan Mihai Pricope, MSE Maruseac Alin MSE 4.3.2. *9 ucrari de licenta* **(27 puncte)** Ciobanu Teodora IM; Aftanase Madalina IM; Bogdan-Teodor Pascaru IM; Ababei Lucin IM; Ibanescu-Rotaru Sorin ME; Ursu Sabin Radu ME; Cazacu Georgiana-Diana ISE Huiala Dragos Ionut ISE Ungureanu Lucian ISE	**42**
	4.4. Îndrumare ani de studii **Realizări:** 4.4.1. Anul IV, 6405 – Managementul energiei	**5**
	1.5. Organizarea de excursii de studii, prezentarea ofertei educationale a universitătii în licee (**35 puncte**) (**7 licee** - 2 Roman, 1 Iasi, 1 Tg. Frumos, 1 Podu Iloie, 2 Suceava)	**35**
Total punctaj Criteriu 4		**88**
5. Activitatea în comunitatea academică (minimum: • 15 puncte prof.; • 10 puncte conf.); • 5 puncte ș.l.;	**5.1.** Participare la simpozioane, mese rotunde etc. **Realizări:** International Workshop on Assets Modernization and Operation CNTEE Transelectrica SA, CNR CIGRE, Comisia de Energetica a Sectiei de Stiinte Tehnice a Academiei Romane (**1 punct**)	**1**
	5.2. Activitate în comisii **Realizări:** 5.2.1. Membru al consiliului facultăţii (**5 puncte**) 5.2.2. Responsabil comisia de orar pe facultate (**5 puncte**) 5.2.3 Comisie promovare facultate (**5 puncte**) 5.2.5. Membru al comisia cercuri stiintifice (Comisia 1 Energetica) (**3 puncte**) 5.2.6. Membru în Comisia pentru soluţionarea contestaţiilor la proba de evaluare a examenului de licenţă (**3 puncte**) 5.2.7. Membru în Comisia de avizare a Activității Științifice pe facultate (**5 puncte**) 5.2.8. Membru în Comisiile de finalizare a studiilor de master ”Management, energie, mediu” și ”Managementul sistemelor de energie” (**6 puncte**) 5.2.9. Membru in Comisia de Inventariere pe facultate (**5 puncte**)	**37**
	5.3. Coordonare programe de studii de licență/ masterat/ postuniversitare de formare continuă **Realizări: ISE licenta**	**5**
Total punctaj Criteriu 5		**43**
Total punctaj Criterii 1-5		**3173,92**
6. Evaluarea de către Directorul de Departament (0-50 puncte)	**Justificări:** • **.....;** • **.....;** • **.....;** • **.....;**	**50**
Total general		**3223,92**

*) conform Fişei postului

Data:

Anexa nr. 3

Declaraţie pe propria răspundere

Subsemnatul, Grigoraș Gheorghe, domiciliat în Iași, str. Sos. Rediu, nr. 6A, bl. 482E, sc. B, ap. 24, judeţul Iași, legitimat(ă) cu CI seria MZ nr. 378742, CNP 1760228336053, încadrat la Departamentul de Energetică, având funcţia didactică de conf. univ. dr. ing. declar pe propria răspundere că documentele depuse la dosar îmi aparţin, sunt întocmite conform Procedurii privind acordarea gradaţiilor de merit pentru personalul didactic titular din cadrul Universităţii Tehnice „Gheorghe Asachi"din Iași, PO.DID.11 şi că prin acestea sunt confirmate/ certificate activităţile pe care le-am desfășurat în perioada de referință.

Întocmită într-un exemplar, pe propria răspundere, cunoscând că falsul în declaraţii este pedepsit conform legii.

Data 29.10.209

Semnătura

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAŞI
FACULTATEA DE INGINERIE ELECTRICĂ, ENERGETICĂ ŞI INFORMATICĂ APLICATĂ
DEPARTAMENTUL DE ENERGETICĂ

FIŞA DE VERIFICARE

a îndeplinirii standardelor minimale naţionale pentru postul de conferențiar universitar

Cadru didactic: Grigoraș Gheorghe **/ Data naşterii**: 28.02.1976 / **Funcţia actuală**: Conf. dr. ing.

Data numirii în funcţia actuală: 9.02.2018 (Decizia TUIASI nr. 315/09.02.2018) **Instituția**: Universitatea Tehnică ”Gheorghe Asachi din Iași

Tabel 1: Conditii minimale / punctaje obtinute (in conformitate cu Domeniul CNATDCU Inginerie Energetică)

Conditii minimale			
Nr crt.	Domeniul de activitate	**Conditii**	**Punctaj obtinut**
1	Activitate didactica/profesionala (A1)	60	**456.74**
2	Activitate de cercetare (A2)	180	**1438.68**
3	Recunoasterea si impactul activitatii (A3)	60	**6476.84**
TOTAL (puncte)		**300**	**8372.26**

Conf. dr. ing. Grigoraș Gheorghe

Tabelul 2. Structura activitatii si punctajele realizate

Nr. crt.	Domeniul activităţilor	Tipul activităţilor	Categorii şi restricţii	Subcategorii	Indicatori (k_{pi})	Realizari	Punctaj
0	1	2	3	4	5		
1	Activitatea didactică şi profesională (A1)	1.1 Cărţi şi capitole în cărţi de specialitate I	1.1.1 Cărţi cu ISBN/ capitole ca autor; minim 4/1 prim autor (p.a.)	1.1.1.1 internaţionale	nr. pagini/(2*nr. autori)	2 carti (p.a.) 5 capitole (3 p.a.)	204.5
				1.1.1.2 naţionale	nr. pagini/(5*nr. autori)	7 cărți	86.7
			1.1.2 Cărţi/ capitole de cărţi ca editor/coordonator	1.1.2.1 internaţionale	nr. pagini/(3*nr. autori)		
				1.1.2.2 naţionale	nr. pagini/(7*nr. autori)		
		1.2 Suport didactic	1.2.1 Manuale, suport de curs inclusiv electronic minim 2/1 prim autor (p.a.);		nr. pagini/(10*nr. autori)	4 manuale (3 p.a.) 4 suportur de curs	130.59
			1.2.2 Îndrumare de laborator/aplicaţii; minim 2/1 prim autor (p.a.)		nr. pagini/(20*nr. autori)	3 (2 p.a.)	14.95
		1.3 Coordonare de programe de studii, organizare şi coordonare programe de formare continuă şi proiecte educaţionale(POS, ERASMUS, sa)	Punctaj unic pentru fiecare activitate			2 programe de studiu	20
		TOTAL					**456.74**
2	Activitatea de cercetare (A2)	2.1 Articole în extenso în reviste cotate WOS Thomson-Reuters, în volume proceedings indexate WOS Thomson-Reuters *) și brevete indexate WOS Derwent	Minim 10 articole 4 în reviste		(25+20*factor impact)/nr. de autori	58 (din care 11 în reviste)	669.04
		2.2 Articole în reviste şi volumele unor manifestări ştiinţifice indexate în alte baze de date internaţionale	Minim 20 articole		20/nr. de autori	92 din care 70 în reviste)	695.64
		2.3 Brevete de invenţie indexate în alte baze de date		2.3.1 internaţionale	25/nr. de autori		
				2.3.2 naţionale	15/nr. de autori		
		2.4 Granturi/proiecte câştigate prin	2.4.1 Director/ responsabil -	2.4.1.1 internaţionale	20*ani de desfăşurare		

		competiţie	Minim 2	2.4.1.2 naţionale **2 granturi**	10*ani de desfăşurare	2 (director)	20
			2.4.2 membru în echipa	2.4.2.1 internaţionale	4*ani de desfăşurare		
				2.4.2.2 naţionale	2*ani de desfăşurare	8	30
		2.5 Contracte de cercetare/consultanţă (valoare echivalentă de minim 2 000 Euro)	2.5.1 Responsabil		5*ani de desfăşurare		
			2.5.2 Membru echipa		2*ani de desfăşurare	12	24
		TOTAL					**1438.68**
3	Recunoaşterea şi impactul activităţii (A3)	3.1 Citări în reviste WOS şi volumele conferinţelor WOS		3.1.2 WOS (minim 8 citări)	5/nr. autori ai art. citat	123 citari 215.49	292.84
		3.2. Citări în reviste şi volumele conferinţelor BDI		3.2.2 BDI (Minimum 16 citări)	3/nr. autori ai art. citat	78 citari 77.35	
		3.3 Prezentări invitate în plenul unor manifestări ştiinţifice naţionale şi internaţionale şi Profesor invitat (exclusiv POS, ERASMUS)	Punctaj unic pentru fiecare activitate	3.3.1 internaţionale	20		
				3.3.2 naţionale	5		
		3.4 Membru în colectivele de redacţie sau comitete ştiinţifice al revistelor şi manifestărilor ştiinţifice, Organizator de manifestări ştiinţifice, Recenzor pentru reviste şi manifestări ştiinţifice naţionale şi internaţionale (punctajul se acorda pentru fiecare, revistă, manifestare ştiinţifică şi recenzie)		3.4.1 ISI	10	3970	6112
				3.4.2 BDI	6	2130	
				3.4.3 naţionale şi internaţionale neindexate	3	12	
		3.5 Referent în comisii de doctorat		3.5.1 internaţionale	10		
				3.5.2 naţionale	5		
		3.6 Premii		Academia Romana	30		
				ASAS, AOSR, academii de ramura şi CNCS	15	4	60
				premii internaţionale	10		
				premii naţionale în domeniu	5		
		3.7 Membru în academii, organizaţii, asociaţii profesionale de prestigiu, naţionale	3.7.1 Academia Romana		100		
			3.7.2 ASAS, AOSR şi academii de		30		

		şi internaţionale, apartenenţă la organizaţii din domeniul educaţiei şi cercetării	ramură				
			3.7.3 Conducere asociaţii profesionale	internaţionale	30		
				naţionale	10		
			3.7.4 Asociaţii profesionale	internaţionale	5	2	10
				naţionale	2	1	2
			3.7.5 Consilii şi organizaţii în domeniul educaţiei şi cercetării	Conducere	15		
				Membru	10		
		TOTAL					**6476.84**

Conf. dr. ing. Gheorghe Grigoraș

ACTIVITATE DIDACTICA/PROFESIONALA (A1)

1.1. Carti si capitole in carti de specialitate (cu ISBN)

Nr crt	Subcategorii (National / International)	Rezultate (punctaje)	Carti de specialitate/Capitole de carti (titlul, autorii, nr. pagini, Editura, ISBN)	Nr pagini
0	*1*	*2*	*3*	*4*
1	International	17	**Gheorghe Grigoraş**, *Impact of smart meter implementation on saving electricity in distribution networks in Romania*, Capitol in cartea *Application of Smart Grid Technologies. Case Studies in Saving Electricity in Different Parts of the World*, Editori: Lisa Ann Lamont Ali Sayigh, Elsevier, Academic Press, Londra, UK, pp. 313 – 346, 2018, ISBN: ISBN 978-0-12-803128-5.	34
2	International	15	**Gheorghe Grigoraş**, *Electrical Energy Consumption Forecasting to Improve Energy Efficiency of Water Distribution Systems*, Capitol in cartea *Energy Harvesting and Energy Efficiency. Technology, Methods, and Applications*, Editori: Nicu Bizon, Naser Mahdavi Tabatabaei, Frede Blaabjerg, Erol Kurt, Springer International Publishing, Switzerland, pp. 599 – 628, 2017, ISBN: 978-3-319-49874-4.	30
3	International	8.5	Florina Scarlatache, **Gheorghe Grigoraş**, *Impact of the Distributed Generation on Optimal Operation and Planning of the Electrical Networks*, capitol in cartea *Distributed Generation. Systems, Performance and Emerging Technologies*, Editor Tao, Lin Nova Science Publishers, USA, pp. 127 – 160, 2017, ISBN: 978 -1 – 53611-074-6.	34
4	International	13.75	Bogdan-Constantin Neagu, **Gheorghe Grigoraş**, *The Assessment of Power Quality in Electric Distribution Systems from Romania*, capitol in cartea *Advances in Energy Research*, Editor Morena J. Acosta, Nova Science Publishers, USA, pp. 157 – 211, 55 pg., 2017, ISBN: 978-1-53612-699-0.	55
5	International	105.0	**Gheorghe Grigoraş**, Florina Scarlatache, Bogdan-Constantin Neagu, *Clustering in Power Systems. Applications*, Lambert Academic Publishing, Germania, 264 pg. (**210 pg. Grigoraş**), 2016, ISBN: 978-3-330-01545-6.	264 pag./ 210 pag. Grigoraș
6	International	4	**Gheorghe Grigoraş**, Gheorghe Cartina, Elena-Crenguta Bobric, *Trends and Directions for Energy Saving in Electric Networks* – capitol in cartea *Management of Technological Innovation in Developing and Developed Countries*, Editor : HongYl Sun, Editura Intech, Croatia, pp. 3 – 27, 2012, ISBN : 978-953-51-0365-3	24
7	International	41.25	**Gheorghe Grigoraş**, Gheorghe Cartina, *The impact of the Fuzzy Modeling in Electric Distribution Systems. Applications*, Lambert Academic Publishing, Germania, 168 pg., 2011, ISBN: 978-3-8473-2793-6.	165
	TOTAL	**204.5**		
7	National	4.96	Mihai Gavrilas, Gheorghe Cartina, Virgil Alexandrescu, Ovidiu Ivanov, **Gheorghe Grigoraş**, *Modelarea sarcinilor din retelele electrice. Vol. I*, Editura PIM, Iasi, 2007, 124 pagini, ISBN: 978-973-716-433-4.	124
8	National	4.64	Mihai Gavrilas, Gheorghe Cartina, Virgil Alexandrescu, Ovidiu Ivanov, **Gheorghe Grigoraş** *Modelarea sarcinilor din retelele electrice. Vol. II*, Editura Cermi, Iasi, 116 pg., 2007, ISBN 978-973-667-315-3.	116

9	National	10.17	Mircea Eremia, Gheorghe Cartina, Dragos Petricică, Ion Bulac, Constantin Bulac, Ion Triştiu, **Gheorghe Grigoraş**, *Tehnici de inteligenţă artificială în conducerea sistemelor electroenergetice*, Editura AGIR, Bucureşti, 356 pg. 2006, ISBN: 973-160-106-X.	356
10	National	15.33	Gheorghe Cartina, **Gheorghe Grigoraş**, Elena Crenguta Bobric, *Tehici de clustering în modelarea fuzzy. Aplicaţii în energetica*, Casa de Editură VENUS, Iaşi, 230 pg. 2005, ISBN: 973-7960-86-6.	230
11	National	21.2	Gheorghe Cartina, **Gheorghe Grigoraş**, *Tehici de Inteligență Artificială în Electroenergetică*, Editura SETIS, Iaşi, 212 pg., 2004, ISBN: 973-86764-4-4.	212
12	National	10.40	Gheorghe Cârţină G., Yong-Hua Song, **Gheorghe Grigoraş**, *Optimal Operation and Planning of Power Systems*, Casa de Editură VENUS, Iaşi, 156 pg., 2003, ISBN: 973-7960-09-2.	156
13	National	20	Gheorghe Cartina, **Gheorghe Grigoraş**, *Inteligența Artificială. Optimizări în energetică*, Casa de Editură VENUS, Iaşi, 200 pg., 2001, ISBN: 973-8174-22-8.	200
	TOTAL	**86.7**		

1.2.1. Manuale/ Suport de curs

Nr crt	**Rezultate (punctaje)**	**Titlul Manualului (titlul, autorii, nr. pagini, website)**	Nr pagini
0	*1*	*2*	*3*
1	12.4	**Gheorghe Grigoraş**, *Metode numerice. Aplicatii in Matlab*. *Vol. II*, Editura PIM, Iasi, 124 pg., 2012, ISBN: 978-606-13-0770-8.	124
2	23.0	**Gheorghe Grigoraş**, *Metode numerice. Aplicatii in Matlab, Vol. I*, Editura PIM, 230 pg., 2010, ISBN: 978-606-13-0177-5.	230
3	7.33	**Gheorghe Grigoraş**, Gheorghe Cartina, Elena Crenguta Bobric, *Sisteme de supraveghere, conducere şi achiziţii de date*, Editura SETIS, Iasi, 220 pg., 2009, ISBN:978-606-92041-3-9.	220
4	5.26	Elena Crenguta Bobric, Gheorghe Cartina, **Gheorghe Grigoraş**, *Tehnici de optimizare în energetică*, Editura Didactică şi pedagogică, Bucuresti, 158 pg., 2008, ISBN 978-973-30-2425-5.	158
5	26.5	**Gheorghe Grigoraş**, Strategii și decizii optimale în energetică, Suport de curs (prezentari PowerPoint), 265 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html	265
6	20.1	**Gheorghe Grigoraş**, Modelarea și optimizarea proceselor energetice industriale, Suport de curs (prezentari PowerPoint), 201 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html	201
7	19.8	**Gheorghe Grigoraş**, Sisteme de conducere, supraveghere și achiziții de date, Suport de curs (prezentari PowerPoint), 198 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html	198
8	16.2	**Gheorghe Grigoraş**, Tehnici modene de conducere, Suport de curs (prezentari PowerPoint), 162 pag. (http://gheorghe-grigoras.ieeia.tuiasi.ro/ suport_curs.html	162
	130.39		

1.2.2. Indrumare de laborator/aplicatii

Nr crt	**Rezultate (punctaje)**	**Titlul Manualului (titlul, autorii, nr. pagini, website)**	Nr pagini
0	*1*	*2*	*3*
1	5.3	**Gheorghe Grigoraş**, *Optimizări în sistemele energetice. Aplicații practice*, Ed. PIM, Iași 2017, 106 pg. ISBN :978-606-13-4053-8	106
2	4.4	**Gheorghe Grigoraş**, Scarlatache Florina, *Metode numerice. Aplicatii practice*, Editura PIM, Iași, 176 pg., 2014, ISBN: 978-606-13-2143-8.	176

3	5.25	Gheorghe Cârţină, **Gheorghe Grigoraş**, *Tehnici moderne de optimizare. Aplicaţii în energetică*, Casa de Editură Venus, Iaşi, 210 pg., 2002, ISBN: 973-8174-80-5.	210
	14.95		

1.3. Coordonare programe de studii

Nr crt	Rezultate (punctaje)	Programe
0	*1*	*2*
1	10	Coorodonator program studii licență Ingineria sistemelor electroenergetice 2016 - 2017
2	10	Coorodonator program studii licență Managementul energiei 2017/2018, 2018/2019
	20	

ACTIVITATE DE CERCETARE (A2)

2.1. Articole publicate in extenso in reviste și în volume proceedings indexate WOS Thomson-Reuters

Nr crt	Rezultate (punctaje)	Autorii, titlul lucrarii, revista/proceedings, pag (de la – pana la), vol….,	FI
0	1	*2*	3
1	2.77	V. Postolaty, V. Berzan, E. Bykova,V. Bosneaga., V. Suslov, I. Ermurachi, **Gheorghe Grigoras,** M. Gavrilas, M. Istrate, *Estimation of Power Exchange through 110 kV OverheadPower Lines at the Interface of the Romanian and Moldovan Power Systems,* PROBLEMELE ENERGETICII REGIONALE, vol 2 (37), pp. 46 – 61, 2018, Accession Number: WOS:000441795300006	0
2	18.085	Avishek Banerjee, Samiran Chattopadhyay, **Gheorghe Grigoraș**, Mihai Gavrilaș, *Minimization of reliability indices and cost of power distribution systems in urban areas using an efficient hybrid meta-heuristic algorithm*, Soft Computing, vol 23, nr. 4, pp. 1257 – 1281, DOI 10.1007/s00500-017-2846-6, 2019, WOS:000457882400013.	2.367
3	62.18	**Gheorghe Grigoraș**, Florina Scarlatache, *An assessment of the renewable energy potential using a clustering based data mining method. Case study in Romania*, Energy, Volume 81, pp. 416–429, 2015, ISSN: 0360-5442, WOS:000351248200041	4.968
4	12.5	**Gheorghe Grigoraș**, Elena-Crenguța Bobric, *Clustering Based Approach for Customers' Classification from Electrical Distribution Systems*, U.P.B. Sci. Bulletin, Series C, Vol. 77, Nr. 2, pp. 219-226, 2015, ISSN : 2286-3540, WOS:000421799900018	0
5	48.6	**Gheorghe Grigoraș**, Cecilia Barbulescu, *Human errors monitoring in electrical transmission networks based on a partitioning algorithm*, International Journal of Electrical Power and Energy Systems, vol. 49, pp. 128–136, 2013, ISSN: 0142-0615, WOS:000317546900015	3.610
6	17.84	**Gheorghe Grigoraș**, Gheorghe Cârțină, *The fuzzy correlation approach in operation of electrical distribution systems*, The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, Vol. 32, Nr. 3, pp. 1044-1066, 2013, ISSN: 0332-1649, WOS:000317546900015	0.534
7	24.30	Florina Rotaru, Gianfranco Chicco, **Gheorghe Grigoraș**, Gheorghe Cârțină, *Two-stage distributed generation optimal sizing with clustering-based node selection*, International Journal of Electrical Power & Energy Systems, Vol. 40, Nr. 1, pp. 120–129, 2013, ISSN: 0142-0615, WOS:000304637300013	3.610
8	12.99	**Gheorghe Grigoraş**, Gheorghe Cârţină, Elena Crenguța Bobric, *Strategies for Power/Energy Saving in Distribution Networks*, Advances in Electrical and Computer Engineering, Vol. 10, Nr. 2, pp. 63 - 66, 2010, ISSN: 1582 – 7445, WOS:000280312600010	0.699
9	25.84	**Gheorghe Grigoraș**, *Energy Consumption Estimation in Water Distribution Systems using Fuzzy Techniques*, Environmental Engineering and Management Journal, Vol. 9, Nr. 2, pp. 249 – 256, 2010, ISSN: 1582 – 9596, WOS:000276559000010	1.334
10	12.99	Elena Crenguța Bobric, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Clustering Techniques in Load Profile Analyze for Distribution Stations*, Journal of Advances in Electrical and Computer Engineering, Nr.1, pp. 63 – 66, 2009, ISSN: 1582 – 7445, WOS:000264815300011	0.699
11	15.586	Elena Crenguța Bobric, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Fuzzy Techniques used for Energy Losses Determination in Medium and Low Voltage Networks*, Journal of Electronics and Electrical Engineering, Nr. 2, pp. 95 – 98, 2009, ISSN: 1392 – 1215 (**FI = 0,859**) - Accession Number: WOS:000263760900021	1.088
12	6.25	Florina Scarlatache, **Gheorghe Grigoraş**, Bogdan-Constantin Neagu, Romeo Ciobanu, *Aided decision making for hybrid energy systems planning in micro-grids*, 2018 Smart City Symposium Prague (SCSP), Praga, Republica Cehă, 24 – 25 Mai, 2018. Accession Number: WOS:000443451800033	0
13	8.33	**Gheorghe Grigoraş**, Bogdan-Constantin Neagu, Florina Scarlatache, Influence of Sampling Size in Profiling Process of Electricity Consumption at Small and Medium Enterprises, 10th International	0

		Conference and Exposition on Electrical and Power Engineering (EPE2018), Iasi, Romania, pp. 743 – 748, 2018 (in curs de indexare)	
14	12.5	**Gheorghe Grigoraș**, Mihai Gavrilaș, An Improved Approach for Energy Losses Calculation in Low Voltage Distribution Networks based on the Smart Meter Data, 10th International Conference and Exposition on Electrical and Power Engineering (EPE2018), Iasi, Romania, pp. 749 – 754, 2018 ((in curs de indexare)	0
15	8.33	**Gheorghe Grigoraș**, Florina Scarlatache, Bogdan-Constantin Neagu, *Analysis of energy saving solutions based on replacement of distribution transformers*, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, pp. 66 – 71, 2017 Accession Number: WOS:000426909600009	0
16	6.25	**Gheorghe Grigoraș**, Florina Scarlatache, Daniela Comanescu, Bogdan-Constantin Neagu, *Expert system for optimal power allocation in hydropower dispatchable units*, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, pp. 605 – 610, 2017 Accession Number: WOS:000426909600091	0
17	8.33	Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, Florina Scarlatache, *Effects of outliers on calculation of load profile factors*, 2017 International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 6 – 9 Iunie, 2017 Accession Number: WOS:000428462600009	0
18	5	**Gheorghe Grigoraș**, Bogdan-Constantin Neagu, Florina Scarlatache, Cristina Schreiner, Romeo Ciobanu, *Identification of pilot nodes for secondary voltage control using K-means clustering algorithm*, 2017 IEEE 26th International Symposium on Industrial Electronics (ISIE), Edinburgh, UK, pp. 106 – 110, 2017 Accession Number: WOS:000426794000015	0
19	25	**Gheorghe Grigoraş**, *Electrical Energy Consumption Forecasting to Improve Energy Efficiency of Water Distribution Systems*, Capitol in cartea *Energy Harvesting and Energy Efficiency. Technology, Methods, and Applications*, Editori: Nicu Bizon, Naser Mahdavi Tabatabaei, Frede Blaabjerg, Erol Kurt, Colecția Lectures Notes in Energy, vol. 37, Springer International Publishing, Switzerland, pp. 599 – 628, 2017, ISBN: 978-3-319-49874-4. Accession Number: WOS:000412159000022	0
20	5	Bogdan-Constantin Neagu, **Gheorghe Grigoraş**, Florina Scarlatache, Cristina Schreiner, Romeo Ciobanu, *Patterns discovery of load curves characteristics using clustering based data* mining, 2017 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 83 – 87, 2017 WOS:000406491800013	0
21	5	Florina Scarlatache, **Gheorghe Grigoraş**, Bogdan-Constantin Neagu, Cristina Schreiner, Romeo Ciobanu, *Influence of hybrid energy systems on micro-grids control*, 2017 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 313 – 317, 2017 WOS:000406491800050	0
22	8.33	Bogdan-Constantin Neagu, **Gheorghe Grigoraş**, Florina Scarlatache, *Outliers discovery from Smart Meters data using a statistical based data mining approach*, 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 555 -558, 2017, WOS:000403399400108	0
23	8.33	**Gheorghe Grigoraș**, Bogdan-Constantin Neagu, Florina Scarlatache, *Smart metering based approach for phase balancing in low voltage distribution systems*, 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 551 - 554, 2017, WOS:000403399400107	0
24	8.33	Florina Scarlatache, **Gheorghe Grigoraș,** Bogdan-Constantin Neagu, *Clustering Based Data Mining in Wind Power Production*, ECAI 2017 - International Conference – 9th Edition Electronics, Computers and	0

		Artificial Intelligence, 29 June -01 July, 2017, Targoviste, Romania, Accession Number: WOS:000425865900119.	
25	8.33	Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, Florina Scarlatache, *Power losses estimation in harmonic polluted LV distribution networks with a fuzzy approach*, 2016 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 2016, WOS:000402541200042	0
26	8.33	Florina Scarlatache, **Gheorghe Grigoraș**, Bogdan-Constantin Neagu, *Decision making methodology based on fuzzy logic in optimal DG location*, 2016 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 2016, WOS:000402541200117	0
27	8.33	**Gheorghe Grigoraș**, Bogdan Constantin Neagu, Florina Scarlatache, *Estimation of energy losses in distribution transformers using a fuzzy approach*, 2016 International Symposium on Fundamentals of Electrical Engineering (ISFEE), București, Romania, 2016, WOS:000392434400035	0
28	8.33	Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, Florina Scarlatache, *The influence of harmonics on power losses in urban distribution networks*, 016 International Symposium on Fundamentals of Electrical Engineering (ISFEE), București, Romania, 2016, WOS:000392434400036	0
29	12.5	**Gheorghe Grigoraș**, Mihai Gavrilaș, *Phase swapping of lateral branches from low-voltage distribution networks for load balancing*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 715 – 718, 2016, WOS:000390706300142	0
30	6.25	Avishek Banerjee, Mihai Gavrilaș, **Gheorghe Grigoraș**, Samiran Chattopadhyay, *A fuzzy hybrid approach for reliability optimization problem in power distribution systems*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 809 – 814, 2016, WOS:000390706300159	0
31	12.5	Florina Scarlatache, **Gheorghe Grigoraș**, *A fuzzy approach in optimal DG planning*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 738 – 742, 2016, WOS:000390706300147	0
32	6.25	Avishek Banerjee, Mihai Gavrilaș, **Gheorghe Grigoraș**, Samiran Chattopadhyay, *Decision making in assessment of RRAP of WSN using fuzzy-hybrid approach*, 2015 IEEE International Conference on Advanced Networks and Telecommuncations Systems (ANTS), Kolkata, India, 2015, WOS:000375678600053	0
33	12.5	Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, *Assessment of slow voltage variations from the electric distribution systems with fuzzy techniques*, 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), București, Romania, pp. 61 – 66, 2015, WOS:000370971100118	0
34	12.5	Florina Scarlatache, **Gheorghe Grigoraș**, *Placement of DG sources using a clustering based partitioning method in distribution systems*, 2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 868 – 872, 2015, WOS:000368159800160	0
35	12.5	**Gheorghe Grigoraș**, Florina Scarlatache, *Processing of smart meters data for peak load estimation of consumers*, 2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 864 – 867, 2015, WOS:000368159800159	0
36	8.33	**Gheorghe Grigoraș**, Ovidiu Ivanov; Mihai Gavrilas, *Customer classification and load profiling using data from Smart Meters*, 12th Symposium on Neural Network Applications in Electrical Engineering (NEUREL), Belgrad, Serbia, pp. 73-78, 2014, WOS:000380554900017	0
37	12.5	Florina Scarlatache, **Gheorghe Grigoraș**, *Influence of wind power plants on power systems operation*, 2014 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 1010-1014, 2014, WOS:000353565300184	0
38	12.5	**Gheorghe Grigoraș**, Florina Scarlatache, *Knowlegde extraction from Smart Meters for consumer classification*, 2014 International	0

		Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 978-982, 2014, WOS:000353565300179	
39	12.5	**Gheorghe Grigoraş**, Florina Scarlatache, *Use of data from smart meters in optimal operation of distribution systems*, 2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Brasov, Romania, pp. 179 – 184, 2014, WOS:000343551300026	0
40	12.5	Florina Scarlatache, **Gheorghe Grigoraş**, *Optimal coordination of wind and hydro power plants in power systems*, 2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Brasov, Romania, pp. 689 – 694, 2014, WOS:000343551300102	0
41	5	Alexandru Kriukov, **Gheorghe Grigoraș**, Mihai Gavrilaș, Florina Scarlatache, Bogdan-Constantin Neagu, *An analyze of slow voltage variations from the electric distribution systems with a clustering based approach*, 2014 16th International Conference on Harmonics and Quality of Power (ICHQP), București, Romania, pp. 689 – 693, 2014, WOS:000343776100142	0
42	5	Alexandru Kriukov, **Gheorghe Grigoraș**, Florina Scarlatache, Ovidiu Ivanov, Bogdan Vicol, *Use of fuzzy techniques in reliability assessment of electric distribution systems,* 2014 16th International Conference on Harmonics and Quality of Power (ICHQP), București, Romania, pp. 29 – 33, 2014, WOS:000343776100007	0
43	5	Bogdan Vicol, Mihai Gavrilaş, Ovidiu Ivanov, Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, *Synchrophasor measurement method for overhead line parameters estimation in MV distribution networks*, 2014 16th International Conference on Harmonics and Quality of Power (ICHQP), București, Romania, pp. 862 – 865, 2014, WOS:000343776100177	0
44	8.33	**Gheorghe Grigoraș**, Marcel Istrate, Florina Scarlatache*, Electrical energy consumption estimation in water distribution systems using a clustering based method*, International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitești, Romania, pp. 1 -6, 2013, WOS:000343672500023	0
45	12.5	Florina Scarlatache, **Gheorghe Grigoraș**, *The influence of the DG sources in the optimal operation of the electrical distribution systems*, 2013 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 1 -4, 2013, WOS:000332928500175	0
46	12.5	**Gheorghe Grigoraș**, Florina Scarlatache, *Energy losses estimation in electrical distribution networks with a decision trees-based algorithm*, 2013 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 1 -4, 2013, WOS:000332928500176	0
47	6.25	Florina Scarlatache, **Gheorghe Grigoraş**, Gheorghe Cârţină, Gianfranco Chicco, *A comparative study regarding the optimal placement of the DG sources*, 2012 International Conference and Exposition on Electrical and Power Engineering, Iasi, Romania, pp. 231 – 236, 2012, WOS:000324685300046	0
48	8.33	**Gheorghe Grigoraș**, Virgil Alexandrescu, Gheorghe Cârțină, *A calculation method of power and energy losses in distribution networks*, 2012 International Conference and Exposition on Electrical and Power Engineering, Iasi, Romania, pp. 197 – 200, 2012, WOS:000324685300040	0
49	8.33	**Gheorghe Grigoraş**, Florina Scarlatache, Gheorghe Cârţină, *Load estimation for distribution systems using clustering techniques*, 2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Brașov, Romania, pp. 301 – 306, 2012, WOS:000398866700045	0
50	6.25	Florina Scarlatache, **Gheorghe Grigoraş**, Gianfranco Chicco, Gheorghe Cârţină*, Using k-means clustering method in determination of the optimal placement of distributed generation sources in electrical distribution systems*, 2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Brașov, Romania, pp. 953 – 958, 2012, WOS:000398866700143	0

51	6.25	Daniela Comanescu, **Gheorghe Grigoraș**, Gheorghe Cârțină, Florina Rotaru, *Determination of typical load profiles in hydro-power plant by clustering techniques*, 2010 12th International Conference on Optimization of Electrical and Electronic Equipment, Brașov, Romania, pp. 1294 – 1297, 2010, WOS:000291967300194	0
52	6.25	**Gheorghe Grigoraș**, Gheorghe Cârțină, Elena-Crenguta Bobric, Florina Rotaru, *Evaluation of the performances of efficient transformers in distribution networks by fuzzy techniques*, 2010 12th International Conference on Optimization of Electrical and Electronic Equipment, Brașov, Romania, pp. 1281 – 1284, 2010, WOS:000291967300192	0
53	8.33	**Gheorghe Grigoraș**, Gheorghe Cârțină, Elena Crenguța Bobric, *An improved fuzzy method for energy losses evaluation in distribution networks*, 15th IEEE Mediterranean Electrotechnical Conference (MELECON), Valletta, Malta, pp. 131 – 135, 2010, WOS:000286988200025	0
54	6.25	Gheorghe Cârțină, **Gheorghe Grigoraș**, Elena Crenguța Bobric, Daniela Comanescu, *Improved fuzzy load models by clustering techniques in optimal planning of distribution networks*, 2009 IEEE Bucharest PowerTech, București, Romania, pp. 1 – 6, 2009, WOS:000276834600280	0
55	8.33	Gheorghe Cârțină, **Gheorghe Grigoraș**, Elena Crenguța Bobric, *Clustering techniques for energy losses evaluation in distribution* networks, 2009 IEEE Bucharest PowerTech, București, Romania, pp. 1 – 5, 2009, WOS:000276834600281	0
56	6.25	**Gheorghe Grigoraș**, Gheorghe Cârțină, Elena Crenguța Bobric, Cecilia Barbulescu, *Missing data treatment of the load profiles in distribution networks*, 2009 IEEE Bucharest PowerTech, București, Romania, pp. 1 – 5, 2009, WOS:000276834600189	0
57	8.33	**Gheorghe Grigoraș**, Cârțină Gheorghe, Mihai Gavrilaș, *Using of Clustering Techniques in Optimal Placement of Phasor Measurements Units*, Conference: 9th WSEAS/IASME International Conference on Electric Power Systems, High Voltages, Electric Machines (POWER '09), Genoa, Italia, pp. 104-108, 2009, WOS:000276614400015	0
58	6.25	Gheorghe Cârțină, Virgil Alexandrescu, **Gheorghe Grigoraș**, Mariana Moshe, *Peak load estimation in distribution networks by fuzzy regression approach*, 2000 10th Mediterranean Electrotechnical Conference. Information Technology and Electrotechnology for the Mediterranean Countries (MeleCon 2000) vol. 3, pp. 907 – 910, 2000, WOS:000166106500221	0
	669.04		

2.3. Articole în reviste şi volumele unor manifestări ştiinţifice indexate în alte baze de date internaţionale

Nr crt	Rezultate (punctaje)	Autorii, titlul lucrarii, revista, pag (de la – pana la), vol….,
1	2.22	**Gheorghe Grigoraș**, Nicu Bizon, Florentina Enescu, Jose Manuel Lopez Guede, Guadalupe Flores Salado, Raymond Brennan, Connie O'Driscoll, Mergersa Dinka, Mohamed Gar Alalm, *ICT based Smart Management Solution to Realize Water and Energy Savings through Energy Efficiency Measures in Water Distribution Systems*, 10th Edition Electronics, Computers and Artificial Intelligence (ECAI 2018), 28 June -30 June, 2018, Iasi, Romania (IEEEXplore).
2	6.66	Bogdan Constantin Neagu, **Gheorghe Grigoras**, Florina Scarlatache, *Influence of Outliers on Transformer Power Losses Estimation Using a Statistical Based Data Mining Approach*, 10th Edition Electronics, Computers and Artificial Intelligence (ECAI 2018), 28 June -30 June, 2018, Iasi, Romania (IEEEXplore)
3	10	**Gheorghe Grigoras**, Bogdan Constantin Neagu, *Energy Consumption Forecasting to Small and Medium Enterprises Using a Hybrid Method*, International Symposium on Fundamentals of Electrical Engineering (ISFEE 2018), 1 – 3 Noiembrie 2018, București, România (IEEEXplore)
4	6.66	Ovidiu Ivanov, **Gheorghe Grigoraș**, Bogdan Constantin Neagu,*Smart Metering based Approaches to Solve the Load Phase Balancing Problem in LV Distribution Networks*, International Symposium on Fundamentals of Electrical Engineering (ISFEE 2018), 1 – 3 Noiembrie 2018, București, România (IEEEXplore)
5	6.66	**Gheorghe Grigoraș**, Bogdan-Constantin Neagu, Alexandra Adăscăliței, *On the Assessment of Slow Voltage Variations in Electric Distribution Networks using K-Means Clustering Algorithm*, 2nd IMEKO TC4 International Symposium & 20th International Workshop on ADC Modelling and Testing, Iași, Romania, September 14-15, 2017 (Scopus)
6	10	Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, *Detection of Irregular Consumption to Load Monitoring in Smart Grids*, 2nd IMEKO TC4 International Symposium & 20th International Workshop on ADC Modelling and Testing, Iași, Romania, September 14-15, 2017 (Scopus).
7	4	Mihai Gavrilaș, **Gheorghe Grigoraș**, Mihaela Cazacu, Ovidiu Carp, Ioan Andrei, *Reducing Active Energy Losses in Low Voltage Distribution Grids*, Journal ff Sustainable Energy Vol. 8, No. 3, pp. 113 – 120, 2017, ISSN 2067-5534 (EBSCO, Index Copernicus) - cod CNCSIS : 817.
8	10	Bogdan-Constantin Neagu, **Gheorghe Grigoraş**, *The Assessment of Power Quality in Electric Distribution Systems from Romania*, Advances in Energy Research, vol. 28, pp. 157 – 211, 2017, ISBN: 978-1-53612-699-0 (Scopus).
9	10	Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, *An Efficient Metaheuristic Algorithm for Optimal Capacitor Allocation in Electric Distribution Networks*, 2017 2nd International Conference on Software, Multimedia and Communication Engineering (SMCE 2017), Shanghai, China, pp. 327- 332, 2017 **(**EI Compendex)
10	5	Avishek Banerje, Samiran Chattopadhyay, Anup Kumar Mukhopadhyay, Gheorghe Grigoraș, *A fuzzy-ACO algorithm to enhance reliability optimization through energy harvesting in WSN*, 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), Chennai, India, pp. 584 – 589, 2016 (IEEE Xplore)
11	4	**Gheorghe Grigoraș**, Mihai Gavrilaș, Florina Scarlatache, Mihaela Cazacu, Mihaela Cosarca, *Assessing Energy Losses in Unbalanced Low Voltage Electric Distribution Networks*, Energetica, Vol. 64, Nr. 2, pp. 53 – 59, 2016, ISSN: 1453-2360 (Index Copernicus) - cod CNCSIS : 512.
12	5	**Gheorghe Grigoraș**, Mihai Gavrilaș, Stelian Buliga, Cătălin Strugaru, *Solutions Regarding the Efficient Use of Transformers in Electric Distribution Networks*, Energetica, Vol. 63, Nr. 4, pp. 145 – 149, 2015, ISSN: 1453-2360, 2015 (Index Copernicus) - cod CNCSIS : 512.
13	5	Mihai Gavrilaș, **Gheorghe Grigoraș**, Stelian Buliga, Cătălin Strugaru*, Influence of Renewable Sources Integration on Technical Energy Losses in High Voltage Distribution Networks*, Energetica, Vol. 63, Nr. 4, pp. 139 – 144, 2015, ISSN: 1453-2360 (Index Copernicus) - cod CNCSIS : 512.
14	6.66	Bogdan Neagu, **Gheorghe Grigoraș**, Florina Scarlatache, *Load Management in Distribution Systems with Smart Metering*, Energetica, Vol. 63, Nr. 4, pp. 150 – 156, 2015, ISSN: 1453-2360 (Index Copernicus) - cod CNCSIS : 512.
15	10	**Gheorghe Grigoraș**, Bogdan-Constantin Neagu, *Market Clearing Price Forecasting in Deregulated Electricity Markets Using a Fuzzy Approach*, Acta Electrotehnica, Vo. 56, Nr. 3, pp. 113-116, 2015, ISSN : 1841-3323 (DOAJ, VINITI) - cod CNCSIS: 576.

16	10	Bogdan-Constantin Neagu, **Gheorghe Grigoraş**, *Data Mining Tools in Electricity Distribution Systems*, Acta Electrotehnica, Vol. 56, Nr. 3, pp. 209-212, 2015, ISSN : 1841-3323 (DOAJ, VINITI) - cod CNCSIS: 576.
17	20	**Gheorghe Grigoraş**, *Assessment of Electrical Load in Water Distribution Systems Using Representative Load Profiles-Based Method*, Advances in Electrical Engineering, vol. 2014, Article ID 865621, 10 pages, 2014. doi:10.1155/2014/865621, ISSN: 2356-6655, ISSN: 2314-7636 (Online) (http://www.hindawi.com/journals/aee/2014/865621/), (DOAJ)
18	6.66	Florina Scarlatache, **Gheorghe Grigoraş**, Bogdan-Constantin Neagu, *The Impact Of Distributed Generation On The Voltage Control In Electrical Distribution Networks*, Energetica, Vol. 62, nr. 3, pp. 105 – 110, 2014, ISSN: 1453-2360 (Index Copernicus) - cod CNCSIS: 512.
19	10	**Gheorghe Grigoraş**, Mihai Gavrilaș, *Maximum Load Estimation of Consumers in Low Voltage Networks Using a Clustering Techniques Based Method*, Energetica, Vol. 62, Nr. 3, pp. 90 – 94, 2014, ISSN: 1453-2360 (Index Copernicus) - cod CNCSIS: 512.
20	10	Florina Scarlatache, **Gheorghe Grigoraş**, *A Wind Energy Profiling Method Based On Unsupervised Learning Techniques*, Buletinul Institutului Politehnic din Iasi, Secţia: Electrotehnică, Energetică, Electronică, Tomul LX (LXIV), Fasc. 2, pp. 9-17, 2014, ISSN 1223-8139 (Index Copernicus, getCITED, Ulrich's) - cod CNCSIS: 87.
21	6.66	**Gheorghe Grigoraș**, Florina Scarlatache, Cecilia Bărbulescu, *Optimal power flow analysis using the correlation method for estimation of nodal loads*, Acta Electrotehnica, vol. 54, nr. 5, 2013, pp. 208 – 2012, 2013, ISSN : 1841-3323 (DOAJ, VINITI) - cod CNCSIS: 576.
22	6.66	**Gheorghe Grigoraș**, Florina Scarlatache, Cecilia Bărbulescu, *Analysis of incidents caused by human factor in transmission power grids*, Acta Electrotehnica, vol. 54, no. 5, 2013, pp. 204 – 2007, 2013, ISSN : 1841-3323 (DOAJ, VINITI) - cod CNCSIS: 576.
23	5	**Gheorghe Grigoraș**, Virgil Alexandrescu, Gheorghe Cârțină, Florina Scarlatache, *Estimation of Power/Energy Losses in Electric Distribution Systems based on an Efficient Method*, TELKOMNIKA Indonesian Journal of Electrical Engineering, vol. 11, No. 9, pp. 4854-4860, 2013, ISSN: 2302-4046, e-ISSN: 2087-278X (http://www.iaesjournal.com/online/index.php/TELKOMNIKA). (SCOPUS)
24	10	**Gheorghe Grigoraş**, Florina Scarlatache, *Clustering to Peak Load Estimation in Transformer Substations from Electric Distribution Systems*, Buletinul Institutului Politehnic din Iasi, Secţia: Electrotehnică, Energetică, Electronică, Tomul LIX (LXIII), Fasc. 3, pp. 141-149, 2013, ISSN 1223-8139 (Index Copernicus, getCITED, Ulrich's) - cod CNCSIS: 87.
25	10	**Gheorghe Grigoraș**, Florina Scarlatache, *Estimation of Power/Energy Losses in Electric Networks Using Artificial Intelligence Techniques*, Energetica, Vol. 61, Nr. 5, pp. 189 – 193, 2013, ISSN: 1453-2360 (Index Copernicus) - cod CNCSIS: 512.
26	10	Florina Scarlatache, **Gheorghe Grigoraş**, *An Approach Regarding the Placement of Distributed Generation Sources in Electric Distribution Systems using Hurwitz Criterion*, Buletinul Institului Politehnic din Iasi, Seria Electrotehnica, Energetica, Tomul LVIII(LXII), No. 4, pp 109 - 117, 2012, ISSN: 1223-8139 (Index Copernicus, getCITED, Ulrich's) - cod CNCSIS: 87.
27	6.66	Florina Scarlatache, **Gheorghe Grigoraș**, Gheorghe Cârțină, *Using of Clustering Techniques for Placement of Distributed Generation Sources in Electrical Distribution Systems*, Buletinul AGIR, No. 3, pp. 1 - 6, 2012. ISSN: 2247-3548 (Index Copernicus) - cod CNCSIS: 415.
28	10	**Gheorghe Grigoraș**, Gheorghe Cârțină, *Impact of the fuzzy modeling in operation of electric distribution systems*, WSEAS Transactions on Circuits and Systems, vol. 11, no. 4, pp. 105 – 114, 2012, E-ISSN: 2224-266X (SCOPUS)
29	6.66	Florina Scarlatache, **Gheorghe Grigoraş**, Gheorghe Cârțină, *An Algorithm based on the Clustering Techniques for the Optimal Placement of the Distributed Generation Sources in Distribution Systems*, Buletinul Institului Politehnic din Iasi, Seria Electrotehncica, Energetica, Tomul LVIII(LXII), No. 1, pp. 115 – 124, 2012, ISSN 1223-8139 (Index Copernicus, getCITED, Ulrich's) - cod CNCSIS: 87.
30	5	**Gheorghe Grigoraș**, Cecilia Bărbulescu, Gheorghe Cârțină, Daniela Comănescu, *Human Errors Monitoring in Electrical Transmission Networks*, Journal of Energy and Power Engineering, vol. 6, no. 3, pp. 425 – 428, 2012, ISSN: 1934-8975 (CSA)
31	6.66	Virgil Alexandrescu, Gheorghe Cârțină, **Gheorghe Grigoraș**, *On Distribution Network Operation Analysis,* Buletinul Institului Politehnic din Iasi, Seria Electrotehnica, Energetica, Tomul LVIII(LXII), No. 1, pp. 105 – 114, 2012, ISSN : 1223-8139 (Index Copernicus, getCITED, Ulrich's) - cod CNCSIS: 87.

32	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Impact of the Fuzzy Typical Load Profiles in Distribution Network Control*, Journal of Electrical and Control Engineering, vol. 2, no. 1, pp. 8 – 14, 2012, ISSN : 2223-2036 (DOAJ)
33	6.66	**Gheorghe Grigoraş**, Daniela Comanescu, Gheorghe Cârţină, *Solutions Regarding to Reducing of Electrical Consumptions in Hydropower Plants*, Buletinul Institului Politehnic din Iasi, Seria Electrotehncica, Energetica, Tomul LVI(LX), No. 1, pp. 133 – 140, 2011, ISSN: 1223-8139 (Index Copernicus, getCITED, Ulrich's) - cod CNCSIS: 87.
34	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Improved Fuzzy Load Models by Clustering Techniques in Distribution Network Control*, International Journal on Electrical Engineering and Informatics, Vol. 3, no. 2, pp. 207 – 216, 2011, ISSN 2085-6830, (SCOPUS)
35	5	**Gheorghe Grigoraş**, Daniela Comanescu, Gheorghe Cârţină, Cecilia Barbulescu, *Optimal Operation of a Hydro Cascade using Typical Loading Profiles*, International Journal of Academic Research, vol. 3, no. 2, pp. 58 – 63, 2011, ISSN: 2075-4124, (IndexCopernicus)
36	10	**Gheorghe Grigoraş**, Istrate Marcel, *An Efficient Clustering Method in Evaluation of the Electric Energy Consumption from Water Hydrophore Stations*, International Review on Modelling and Simulations, Vol. 4, no. 2, 2011, pp. 813–818, ISSN: 1974-9821 (SCOPUS)
37	5	**Gheorghe Grigoraş**, Cecilia Barbulescu, Gheorghe Cârţină, Daniela Comanescu, *A Comparative Study Regarding Efficiency of the Hierarchical Clustering Techniques in Typical Load Profiles Determination*, Acta Electrotehnica, vol. 52, no. 5, pp. 184 – 188, 2011, ISSN 2344–5637 (DOAJ, VINITI) - cod CNCSIS: 87.
38	5	Cecilia Bărbulescu, **Gheorghe Grigoraş**, Gheorghe Cârţină, Florina Rotaru, *Study Based on Clustering Techniques Regarding Accidental Events from The South-East of the Transport System from Romania*, Acta Electrotehnica, vol. 52, no. 5, pp. 46 – 49, 2011, ISSN 2344–5637, (DOAJ, VINITI) - cod CNCSIS: 576.
39	5	**Gheorghe Grigoraş**, Gheorghe Cârţină, Marcel Istrate, Florina Rotaru, *The Efficiency of the Clustering Techniques in the Energy Losses Evaluation from Distribution Networks*, International Journal of Mathematical Models and Methods in Applied Sciences, vol. 5, no. 1, pp. 133 – 140, 2011, ISSN: 1998-0140 (SCOPUS)
40	5	**Gheorghe Grigoraş**, Daniela Comanescu, Florina Rotaru, Gheorghe Cârţină, *Using of a Hybrid Method in the Loading Profiles Determination of a Hydropower Cascade*, Buletinul Institului Politehnic din Iasi, Seria Electrotehnica, Energetica, Tomul LVII(LXI), No. 2, pp. 117 – 128, 2011, ISSN 1223-8139, (IndexCopernicus) - cod CNCSIS: 87.
41	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Strategies Regarding Operating Voltage Levels in Distribution Networks*, Journal of Energy and Power Engineering, vol. 4, No.6, pp. 60 – 63, 2010, ISSN: 1934-8975 (CSA)
42	5	**Gheorghe Grigoraş**, Cecilia Bărbulescu, Gheorghe Cârţină, Florina Rotaru, *Accidental Incidents Duration Analysis in Power Transmission Grids*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică Tomul LVI (LX), Fasc. 2, pp. 107 – 115, 2010, ISSN 1223-8139, (IndexCopernicus) - cod CNCSIS: 87.
43	6.66	Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguța Bobric, *Opportunities to conserve energy right from distribution installations*, Buletinul U.P.B, Series C, Vol. 72, No. 1, pp. 81 – 90, 2010, ISSN (print): 2286-3540 (SCOPUS).
44	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Energy Losses Evaluation using a Method based on Clustering and Fuzzy Techniques*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul LVI (LX), Fasc. 3, pp. 95 – 100, 2010, ISSN 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
45	5	**Gheorghe Grigoraş**, Elena-Crenguța Bobric, Gheorghe Cârţină, Florina Rotaru, *Strategies for minimization of power losses in electric distribution networks*,Energetica, Nr. 7, pp. 314 - 318, 2010, ISSN: 1453-2360, (IndexCopernicus) - cod CNCSIS: 512.
46	6.66	Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *On Power Flow Problem of Distribution Networks Under Condition of Lack Of Information*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul LVI (LX), Fasc. 2, pp. 77 – 87, 2010, ISSN 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
47	6.66	**Gheorghe Grigoraş**, Cecilia Bărbulescu, Gheorghe Cârţină, *Incident Duration Analysis in Power Transmission Grids by Clustering Techniques*, Energetica, Nr. 10, pp. 474 – 478, 2010, ISSN: 1453-2360, (IndexCopernicus) - cod CNCSIS: 512.
48	6.66	**Gheorghe Grigoraş**, Gheorghe Cârţină, Virgil Alexandrescu, *An Improved Method for Power Losses Determination in Rural Distribution Networks*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LIV (LVIII), Fasc. 3, pp. 23 – 30, 2008, ISSN 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.

49	6.66	**Gheorghe Grigoraş**, Gheorghe Cârţină, Elena-Crenguța Bobric, *Possibilities for Energy Saving in Electric Distribution Networks*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LIV (LVIII), Fasc. 3, pp. 211 – 220, 2008, ISSN 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
50	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Energy Saving by Efficient Transformers in Distribution Networks*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LIV (LVIII), Fasc. 2, pp. 83 – 88, 2008, ISSN 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
51	10	Gheorghe Cârţină, **Gheorghe Grigoraş**, *Optimal Reconfiguration of Distribution Networks in Uncertainty Conditions*, Buletinul Stiintific al UPB, Seria: Inginerie Electrica, nr. 4, pp. 247 – 254, 2007, ISSN (print): 2286-3540 (SCOPUS)
52	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, Virgil Alexandrescu, *Geographic Information System (GIS) – An Integrated Technology for Distribution Systems*, Buletinul Stiintific al UPB, Seria: Inginerie Electrica, nr. 4, pp. 255 – 262, 2007, ISSN (print): 2286-3540 (SCOPUS).
53	6.66	Anca Mihaescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Next Generation Networks In Communications Trends*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LIV (LVIII), Fascicula 3-4, pp. 111-120, 2007, ISSN 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
54	6.66	Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Nouvelle Méthodologie d'Application des Modèles Statique de la Charge Asynchrone á l'étude de la Stabilité de Tension des Réseaux électriques*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LIII (LVII), Fasc. 1 - 2, pp. 127 – 132, 2007, ISSN 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
55	6.66	Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Integrated Software Application for the management of Databases Containing Static and Dynamic Models of the Aggregated Loads from Distribution Network and Their Use in Static and Dynamic Networks*, Analele Universităţii din Craiova, Seria: Inginerie Electrica, vol. II, pp. 323 – 326, 2007, ISSN : 1842-4805 (IndexCopernicus) - cod CNCSIS:174.
56	6.66	Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguța Bobric, *Power System Analysis using Matlab Toolboxes*, Analele Universitatii din Craiova, Seria: Inginerie Electrica, vol. II, pp. 305 – 308, 2007, ISSN : 1842-4805 (IndexCopernicus) - cod CNCSIS:174.
57	10	Gheorghe Cârţină, **Gheorghe Grigoraş**, *Determination of the Customers Consumption Categories using Clustering Techniques*, 30th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO'07, Gliwice-Ustron, Polonia, pp. 231 – 232, 2007 (INSPEC).
58	6.66	**Gheorghe Grigoraş**, Gheorghe Cârţină, Virgil Alexandrescu, *Analysis of the Electric Distribution Networks using Geographic Information System (GIS) Technology*, 30th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO'07, Gliwice-Ustron, Polonia, pp. 111 – 112, 2007 (INSPEC).
59	6.66	Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Software Application to Elaborate Static and Dynamic Load Models for Different Categories of Electric Consumers*, 30th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO'07, 2007, Gliwice-Ustron, Polonia, pp. 225 – 226, 2007 (INSPEC).
60	6.66	Gheorghe Cârţină, **Gheorghe Grigoraş**, Carmen Lupaşcu C., *Modeling of the Customers' Consumption Categories in Electric Distribution Systems*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Fasc. 5C, pp. 1175 – 1180, 2006, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
61	5	**Gheorghe Grigoraş**, Gheorghe Cârţină, Virgil Alexandrescu, Carmen Lupaşcu, *Fuzzy Load Models and GIS Documents in Distribution Networks Analysis*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Fasc. 5C, pp. 1199 – 1204, 2006, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS:87.
62	6.66	Carmen Lupaşcu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Optimal Reconfiguration of the Distribution Networks using Clustering Techniques and Fuzzy Load Models*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Fasc. 5C, pp. 1205 – 1210, 2006, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
63	6.66	Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Static Load Models of the Induction Motors*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Fasc. 5C, pp. 1579 – 1583, 2006, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
64	4	Mihai Gavrilaş, Gheorghe Cârţină, **Gheorghe Grigoraş**, Ovidiu Ivanov, Carmen Lupașcu, *Integrated model for electric load profiling*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Fasc. 5C, pp. 1193 – 1198, 2006, ISSN : 1223-8139

		(IndexCopernicus) - cod CNCSIS: 87.
65	10	**Gheorghe Grigoraş**, Cârţină G., *Using of Fuzzy Typical Load Profiles in Missing Data Treatment*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LII (LVI), Fasc. 3-4, pp. 139 – 145, 2006, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
66	6.66	Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Nouvelle Méthode pour Déterminer les Modeles Statiques de la Charge Asynchrone Agrégé*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul LII (LVI), Fasc. 3-4, pp. 119 – 128, 2006, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
67	6.66	Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Analiza nodală Dimo în pregătirea viitorilor ingineri electronergiticieni*, Energetica, Nr. 9, pp. 354 – 358, 2005, ISSN: 1453-2360 (IndexCopernicus) - cod CNCSIS: 512**.**
68	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Improvement of the Loads Estimation with the Clustering Techniques*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul LI (LV), Fasc. 1 - 2, pp. 131 – 136, 2005. ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
69	10	Gheorghe Cârţină, **Gheorghe Grigoraş,** *Determinarea benzilor optimale de reglare a tensiunii în reţelele electrice*, Energetica, vol. 52, Nr. 11, pp. 487 -491, 2004, ISSN: 1453-2360, (IndexCopernicus) - cod CNCSIS: 512.
70	6.66	**Gheorghe Grigoraş**, Gheorghe Cârţină, Virgil Alexandrescu, *Pay as Bid Approach in Energy Market*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul LI (LV), Fasc. 3 - 4, pp. 125 – 130, 2005, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
71	6.66	**Gheorghe Grigoraş**, Gheorghe Cârţină, Virgil Alexandrescu, *Using Fuzzy Logic in Distribution Network Power Loss Estimation*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul L(LIV), Fasc. 5A, pp.157 – 162, 2004, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
72	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Using of the Clustering Techniques in Load Profiles Determination*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul L(LIV), Fasc. 3 - 4, pp. 121 -127, 2004, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
73	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Load uncertainties introduction in power flow analysis*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLIX (LIII), Fasc. 1-2, pp. 121 – 126, 2003, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
74	10	Gheorghe Cârţină, **Gheorghe Grigoraş**, *Bidding Strategies in deregulated markets*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLIX(LIII), Fasc. 3/4, pp 133 – 141, 2003, ISSN 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
75	6.66	Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, *Utilizarea tehnicilor GIS (Geographic Information Systems) în planificarea reţelelor electrice*, Energetica, vol, 51, Nr. 8, pp.346-349, 2003, ISSN: 1453-2360 (IndexCopernicus) - cod CNCSIS: 512.
76	6.66	Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *On the Local Voltage Stability Static Analysis*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLIX(LIII), Fasc. 3/4, pp. 127-131, 2003, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
77	6.66	Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguța Bobric, *Using of the fuzzy logic for voltage control in distribution networks*, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, vol. 2, pp. 319 - 322, 2003, (INSPEC).
78	5	Gheorghe Cârţină, **Gheorghe Grigoraş**, Ovidiu Dumitrescu, Pavel Atanasoae, *Optimal commitment of equipments in combined heat and power plants*, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, vol. 2, pp. 331 - 334, 2003, (INSPEC).
79	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Load flow analysis in distribution system using fuzzy powers correlation models*, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, vol. 2, pp. 323 - 326, 2003, (INSPEC).
80	5	Ovidiu Dumitrescu, Pavel Atanasoae, Gheorghe Cârţină, **Gheorghe Grigoraş**, *The influence of equipments modernization on the consumption characteristics in power plants*, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, Vol. 2, pp. 327 - 330, 2003, (INSPEC).

81	6.66	**Gheorghe Grigoraş**, Gheorghe Cârţină, Moshe M., *Using of the Increasing Factors Method in Distribution Networks Planning*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLVIII LII), Fasc. 3-4, pp.173 – 179, 2002, ISSN 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
82	10	Virgil Alexandrescu, **Gheorghe Grigoraş**, Alocarea costurilor serviciului de transport de energie pe noduri de rețea, ținând seama de circulația puterilor reactive, Energetica, vol. 50, Nr. 10, pp. 438-446, 2002, ISSN: 1453-2360 (IndexCopernicus) - cod CNCSIS: 512.
83	6.66	Gheorghe Cârţină, **Gheorghe Grigoraş**, Mariana Moshe, *Using of the Power Correlation in Distribution Networks Planning*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLVIII(LII), Fasc. 1-2, pp. 149-157, 2002, ISSN : 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
84	6.66	Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, *Application of the Powers Correlation in Fuzzy Modeling*, Bul. Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Fascicula 5A, pp. 297 – 302, 2002, ISSN 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
85	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Electric Network Planning Aspects with Special Regard to Reliability*, Bul. Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLVII(LI), Fasc. 3-4, pp.127-134, 2001, ISSN 1223-8139 (IndexCopernicus) - cod CNCSIS: 87.
86	6.66	Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguța Bobric, Using of the fuzzy logic for voltage control in distribution networks, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, vol. 2, pp. 319 - 322, 2003, (INSPEC).
87	5	Gheorghe Cârţină, **Gheorghe Grigoraş**, Ovidiu Dumitrescu, Pavel Atanasoae, *Optimal commitment of equipments in combined heat and power plants*, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, vol. 2, pp. 331 - 334, 2003, (INSPEC).
88	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Load flow analysis in distribution system using fuzzy powers correlation models*, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, vol. 2, pp. 323 - 326, 2003, (INSPEC).
89	5	Ovidiu Dumitrescu, Pavel Atanasoae, Gheorghe Cârţină, **Gheorghe Grigoraş**, *The influence of equipments modernization on the consumption characteristics in power plants*, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, Vol. 2, pp. 327 - 330, 2003, (INSPEC).
90	10	Gheorghe Cârţină, **Gheorghe Grigoraş**, *Fuzzy Modeling in Distribution Systems*, 25th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2002, Gliwice-Ustron, Poland, vol. 2, pp. 249 - 252, 2002, (INSPEC).
91	10	**Gheorghe Grigoraş**, Gheorghe Cârţină, *Time Influence in Reliability Factors Evaluation*, 25th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2002, Gliwice-Ustron, Poland, vol. 2, pp. 353 - 356, 2002 (INSPEC).
92	6.66	Elena-Crenguța Bobric, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Fuzzy-Based Voltage/Reactive Power Control in Power Systems*, 25th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2002, Gliwice-Ustron, Poland, vol.2, pp. 431 - 434, 2002, (INSPEC).
TOTAL	**695.64**	

2.4. Granturi/proiecte castigate prin competiție

Nr. Crt.	Subcategorii (National / International)	Rezultate (punctaje)	Titlul proiectului	Calitate (director/membru in echipa)	Valoare (RON)	Valoare (EUR)
0	*1*	*2*	*3*	*4*	*5*	*6*
1	National	1x10	*Platforma software de asistare a deciziilor în proiectarea ecologică optimă a instalațiilor electrice cu producere si stocare locală a energiei, în contextul creșterii eficienței energetice, Grant PN-III-P2-2.1-CI-2018-1128, Contract 192CI/25.07.2018*	Director/Responsabil proiect	50000	10893
2	National	1x2	*Platformă software inovativa pentru managementul energetic al consumatorilor finali in vederea cresterii eficientei energetice și a reducerii emisiilor de carbon, Grant PN-III-P2-2.1-CI-2018-1017, Contract nr. 174CI din 04/07/2018*	Membru	49990	10891
3	National	1x2	*Management inteligent a centralelor electrice virtuale cu ajutorul platformelor software bazate pe inteligenta artificiala, in contextul competitivitatii energetice Europene, Grant PN-III-P2-2.1-CI-2018-1011, Contract nr. 173CI din 02/07/2018*	Membru	49750	10839
4	National	1x10	*Platforma de management si control integrat al fluxurilor purtatorilor de energie in scopul cresterii eficientei energetice la IMM-uri*, Grant PN-III-P2-2.1-CI-2017-0190, Contract 105CI/25.07.2017	Director/Responsabil proiect	50000	10893
5	National	1x2	*Sistem integrat pentru optimizarea consumului de energie a grupurilor de pompare din cadrul sistemelor de irigații* Grant PN-III-P2-2.1-CI-2017-0169, Contract 17CI/25.07.2017	Membru	50000	10893
6	National	1x2	*Instrument software pentru gestiunea tranzactiilor pe piata de energie electrica*, Grant PN-III-P2-2.1-CI-2017-0328, Contract 45CI/25.07.2017	Membru	50000	10893
7	National	4x2	*Dezvoltarea platformei de*	Membru	51031879	11118056

Nr. Crt.	Subcategorii (National / International)	Rezultate (punctaje)	Titlul proiectului	Calitate (director/membru in echipa)	Valoare (RON)	Valoare (EUR)
0	*1*	*2*	*3*	*4*	*5*	*6*
			cercetare pentru energie eficientă și durabilă – ENERED, Grant 911/ SMIS-CSNR 13987, Contract de finanţare: 430/21.12.2012, 2012 – 2106			
8	National	3x2	*Sistem inteligent de predictie si control al congestiilor in retelele de transport si distributie la inalta tensiune*, Grant PNCDI II – Parteneriate, contract nr. 22126 / 01.10.2008, 2008, beneficiar: CNCSIS	Membru	319859	86911
9	national	2x2	*Amplasarea surselor de putere în reţelele de distribuţie de 110 kV şi MT ale S.C. E.ON Moldova Distribuţie S.A. după criteriul pierderilor minime de energie şi al apropierii surselor de consumator şi studiu privind compensarea şi reglarea puterii reactive în scopul optimizării nivelului de tensiune în reţelele de 110 kV ale S.C. E.ON Moldova Distribuţie S.A*, Contract de cerectare nr. 7405 P / 26.10.2007, 2007, beneficiar: E.ON Moldova Distribuţie S.A	Membru	145440	43627
10	national	2x2	*Tehnici de inteligenta artificiala si modele noi pentru dezvoltarea studiilor de sarcina in scopul utilizarii eficiente a energiei electrice in conditiile impuse de functionarea pietei de energie electrica*, Grant CNCSIS tip A, cod 241, tema 13 / 2006, contract nr. 63GR/19.05.2006 si tema 26 / 2007, contract nr. GR80/23.05.2007	Membru	90430	25648
Total		**50**				

2.5. Contracte de cercetare / consultanţă (valoare echivalentă de minim 2000 EUR)

Nr. Crt.	Subcategorii (National / International)	Rezultate (punctaje)	Titlul proiectului	Calitate (director/membru in echipa)	Valoare (RON)	Valoare (EUR)
0	1	2	3	4	5	6
1	National	2	*Prognoza de consum propriu tehnologic pentru reteaua de energie electrica din zona de activitate a Delgaz Grid. S.A. pentru anul 2018*	Membru	46500	9981
2	National	2	*Prognoza de consum propriu tehnologic pentru reaua de energie electrica din zona de activitate a Delgaz Grid. S.A. Contract nr. 448P / 15.03.2017*	Membru	44888	9887
3	National	2	*Elaborare studiu - Servicii de consultanță de specialitate în proiectul EON Moldova Distribuție de reducere a pierderilor tehnice în rețelele de distribuție a energiei electrice pentru perioada 2016*; Contract nr. 684P / 21.04.2016; beneficiar: EON Distribuție Romania S.A. - Membru	Membru	60000	13483
4	National	2	*Servicii de consultanță de specialitate în proiectul EON Moldova Distribuție de reducere a pierderilor tehnice în rețelele de distribuție*, Contract nr. 1398P / 08.10.2014, beneficiar: E.ON Moldova Distribuţie S.A. - Membru	Membru	194000	43654
5	National	2	*Studiu privind verificarea schemelor de protecţie împotriva loviturilor directe de trăsnet în cazul staţiei 220/110/20 kV Munteni. Analiză comparată a metodei normate şi a metodei electrogeometrice*, Contract nr. 8795P/17.05.2013. Beneficiar: CN Transelectrica SA, Sucursala de Transport Bacău.	Membru	70680	16023
6	National	2	*Studiu de determinare a consumului propriu tehnologic in retelele de joasa tensiune aferente jud. Bacau, apartinand E.ON Moldova Distributie S.A*, contract de cercetare nr. 3564P / 01.11.2011, 2011, beneficiar: E.ON Moldova Distribuţie S.A	Membru	50000	11799

7	National	2	*Utilizarea tehnicilor de inteligenţă artificială în scopul creşterii performanţelor reţelelor de transport ale energiei electrice*, Contract de cerectare nr. 1578P/2003, 2003, beneficiar: Transelectrica SA –ST Bacău - Membru	Membru	5700	2860
8	National	2	*Produs soft pentru planificarea şi analiza reţelelor electrice de distribuţie.* Contract de cerectare nr. 967P/2002, 2002, beneficiar: SC. FDFEE Electrica Moldova S.A. Sucursala Iaşi	Membru	5000	2508
9	National	2	*Model multiobiectiv de optimizare a planificarii retelelor electrice de distributie prin tehnici fuzzy*, Contract de cerectare nr. 562P/2000, 2000, beneficiar: SC. FDFEE Electrica Moldova S.A. Sucursala Iaşi	Membru	5000	2508
10	National	2	*Alocarea costurilor serviciilor de transport pe noduri de retea tinind seama de cerintele si restrictiile specifice retelelor de transport din tara noastra*, Contract de cerectare nr. 889P/2000, 2000, beneficiar: STD Bacau - Membru	Membru	4000	2007
11	National	2	*Analiza contingentelor din retelele 400/220/110 kV din zona STD Bacau in vederea optimizarii programului de retrageri din exploatare.* Contract de cerectare nr. 890P/2000, 2000, beneficiar: STD Bacau	Membru	5000	2508
12	National	2	*Calcule utilizind tehnici fuzzy in reteaua de 110 kV a SDEE Galati; vizind simularea sarcinii; calculul regimurilor; optimizarea functionarii retelei.* Contract de cerectare nr. 853P/2000, 2000, beneficiar: SDEE Galați	Membru	4000	2007
	TOTAL	**24**				

3. RECUNOASTERE SI IMPACTUL ACTIVITATII (A3)

Citări în reviste şi volumele conferinţelor indexate WOS/BDI

Nr. crt.	Nr. citari	Lucrarea citată	Nr. autori	
		Rotaru Fl, Chicco G., Grigoras Gh., Cartina Gh., Two-stage distributed generation optimal sizing with clustering-based node selection, International Journal of Electrical Power & Energy Systems, Vol. 40, No. 1, September 2012, Pages 120–129, doi:10.1016/j.ijepes.2012.02.012	4	
		Lucrarea care citează	**Tip**	**Punctaj**
1	1	Georgilakis, P. S., & Hatziargyriou, N. D. (2013). Optimal distributed generation placement in power distribution networks: models, methods, and future research. *IEEE Transactions on Power Systems*, 28(3), 3420-3428.	ISI	1.25
2	2	Peik-Herfeh, M., Seifi, H., & Sheikh-El-Eslami, M. K. (2013). Decision making of a virtual power plant under uncertainties for bidding in a day-ahead market using point estimate method. *International Journal of Electrical Power & Energy Systems*, 44(1), 88-98.	ISI	1.25
3	3	Ugranlı, F., & Karatepe, E. (2013). Multiple-distributed generation planning under load uncertainty and different penetration levels. *International Journal of Electrical Power & Energy Systems*, *46*, 132-144.	ISI	1.25
4	4	Dehghanian, P., Hosseini, S. H., Moeini-Aghtaie, M., & Arabali, A. (2013). Optimal siting of DG units in power systems from a probabilistic multi-objective optimization perspective. *International Journal of Electrical Power & Energy Systems*, *51*, 14-26.	ISI	1.25
5	5	Murthy, V. V. S. N., & Kumar, A. (2013). Comparison of optimal DG allocation methods in radial distribution systems based on sensitivity approaches.*International Journal of Electrical Power & Energy Systems*, *53*, 450-467	ISI	1.25
6	6	Rozali, N. E. M., Alwi, S. R. W., Manan, Z. A., Klemeš, J. J., & Hassan, M. Y. (2014). Optimal sizing of hybrid power systems using power pinch analysis.*Journal of Cleaner Production*, *71*, 158-167.	ISI	1.25
7	7	Jahromi, M. E., Ehsan, M., & Meyabadi, A. F. (2012). A dynamic fuzzy interactive approach for DG expansion planning. *International Journal of Electrical Power & Energy Systems*, *43*(1), 1094-1105.	ISI	1.25
8	8	Yadav, A., & Srivastava, L. (2014, January). Optimal placement of distributed generation: An overview and key issues. In Power Signals Control and Computations (EPSCICON), 2014 International Conference on (pp. 1-6). IEEE.	ISI	1.25
9	9	De Souza, A. R. R., Fernandes, T. S. P., Aoki, A. R., Sans, M. R., Oening, A. P., Marcilio, D. C., & Omori, J. S. (2013). Sensitivity analysis to connect distributed generation. *International Journal of Electrical Power & Energy Systems*, *46*, 145-152.	ISI	1.25
10	10	Ugranlı, F., & Karatepe, E. (2013). Optimal wind turbine sizing to minimize energy loss. *International Journal of Electrical Power & Energy Systems*, *53*, 656-663.	ISI	1.25
11	11	Ebrahimi, R., Ehsan, M., & Nouri, H. (2013). A profit-centric strategy for distributed generation planning considering time varying voltage dependent load demand. *International Journal of Electrical Power & Energy Systems*, *44*(1), 168-178.	ISI	1.25
12	12	Vinothkumar, K., & Selvan, M. P. (2014). Hierarchical agglomerative clustering algorithm method for distributed generation planning. *International Journal of Electrical Power & Energy Systems*, *56*, 259-269.	ISI	1.25
13	13	Li Jing, Wei Wei, Xin Huanhai, & Peng Yonggang. (2014). Based on the optimal allocation of wind power probability trend of distributed power. *Automation of Electric Power Systems*, 38 (14), 70G76. (ACM0	BDI	0.75
14	14	Chen, G., Chen, B., Dai, P., & Zhou, H. (2013). A Sustainability-	ISI	1.25

		Oriented Multiobjective Optimization Model for Siting and Sizing Distributed Generation Plants in Distribution Systems. *Mathematical Problems in Engineering*, *2013*.		
15	15	Sultana, S., & Roy, P. K. (2015). Oppositional krill herd algorithm for optimal location of distributed generator in radial distribution system. *International Journal of Electrical Power & Energy Systems*, *73*, 182-191.	ISI	1.25
16	16	Hui, W., & Fangqiu, X. (2012, December). Different load models based on particle swarm algorithm for the siting and sizing optimization problem for distributed power. In *2012 10th International Power & Energy Conference (IPEC)* (pp. 19-24). (IEEE Xplore)	BDI	0.75
17	17	Gupta, P., Pandit, M., & Kothari, D. P. (2014, December). A review on optimal sizing and siting of distributed generation system: Integrating distributed generation into the grid. In *Power India International Conference (PIICON), 2014 6th IEEE* (pp. 1-6).	ISI	1.25
18	18	Singh, A. K., & Parida, S. K. (2015). Allocation of distributed generation using proposed DMSP approach based on utility and customers aspects under deregulated environment. *International Journal of Electrical Power & Energy Systems*, *68*, 159-169.	ISI	1.25
19	19	Prenc, R., Bogunović, N., & Cuculić, A. (2015). The effect of distributed generation type and location constraints on the solution of the allocation algorithm. *International Review of Electrical Engineering (IREE)*, *10*(1), 88-97. (SCOPUS)	BDI	0.75
20	20	Dehghanian, P., Hosseini, S. H., Moeini-Aghtaie, M., & Arabali, A. (2013). Electrical Power and Energy Systems. *Electrical Power and Energy Systems*,*51*, 14-26.	ISI	1.25
21	21	Georgilakis, P. S. (2013). Integration of Distributed Generation in the Power System, M. Bollen, F. Hassan. Wiley–IEEE Press, New Jersey (2011).	ISI	1.25
22	22	Ugranlı, F., & Karatepe, E. (2015). Multi-objective transmission expansion planning considering minimization of curtailed wind energy. *International Journal of Electrical Power & Energy Systems*, *65*, 348-356.	ISI	1.25
23	23	Huy, P. D., Ramachandaramurthy, V. K., & Pesaran, H. M. (2015, November). Optimal selection of location, sizing and power factor for solar PV plants using differential evolution. In *Smart Grid Technologies-Asia (ISGT ASIA), 2015 IEEE Innovative* (pp. 1-6).	ISI	1.25
24	24	Nojavan, S., Jalali, M., & Zare, K. (2015). An MINLP Approach for Optimal DG Unit's Allocation in Radial/Mesh Distribution Systems Take into Account Voltage Stability Index. *Iranian Journal of Science and Technology. Transactions of Electrical Engineering*,*39*(E2), 155.	ISI	1.25
25	25	Kumawat, M., Gupta, N., Jain, N., & Saxena, D. (2015, January). Optimal distributed generation placement in power distributed networks: A review. In *Electrical, Electronics, Signals, Communication and Optimization (EESCO), 2015 International Conference on* (pp. 1-6).	ISI	1.25
26	26	Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (DOAJ)	BDI	0.75
27	27	SD. Meera Shareef, T.Vinod Kumar (2014), A Review on Models and Methods for Optimal Placement of Distributed Generation in Power Distribution System, *International Journal of Education and applied research (IJEAR)*, 4(1), 161-169. (Index Copernicus)	BDI	0.75
28	28	Prakash, P., & Khatod, D. K. (2016). Optimal sizing and siting techniques for distributed generation in distribution systems: A review. *Renewable and Sustainable Energy Reviews*, 57, 111-130	ISI	1.25
29	29	Sultana, S., & Roy, P. K. (2016). Krill herd algorithm for optimal location of distributed generator in radial distribution system. *Applied Soft Computing*, 40, 391-404.	ISI	1.25
30	30	Sultana, U., Khairuddin, A. B., Aman, M. M., Mokhtar, A. S., & Zareen, N. (2016). A review of optimum DG placement based on minimization of power losses and voltage stability enhancement of distribution system. *Renewable and Sustainable Energy Reviews*, 63, 363-378.	ISI	1.25

31	31	Elahimanesh, A., Moghimi, S. M., & Aghamohammadi, M. R. (2016). Effect of distributed generation units on stability improving trend of IEEE 14 and 34 Bus test network voltage. *Indian Journal of Science and Technology*, 9(15). (EBSCO)	BDI	0.75
32	32	Kumar, M., Kumar, A., & Sandhu, K. S. (2016). PV-WT Based Distribution Generator Location Minimizing Transmission Loss in Pool/Bilateral Electricity Market Model. *Procedia Technology*, 25, 692-701. (ELSEVIER)	BDI	0.75
33	33	Kools, L., & Phillipson, F. (2016). Data granularity and the optimal planning of distributed generation. *Energy*, 112, 342-352.	ISI	1.25
34	34	HA, M. P., Huy, P. D., & Ramachandaramurthy, V. K. (2016). A review of the optimal allocation of distributed generation: Objectives, constraints, methods, and algorithms. *Renewable and Sustainable Energy Reviews*. 75, 293 – 312.	ISI	1.25
35	35	Theo, W. L., Lim, J. S., Ho, W. S., Hashim, H., & Lee, C. T. (2017). Review of distributed generation (DG) system planning and optimisation techniques: Comparison of numerical and mathematical modelling methods. *Renewable and Sustainable Energy Reviews*, 67, 531-573.	ISI	1.25
36	36	Kazmi, S. A. A., Shahzad, M. K., & Shin, D. R. (2017). Multi-Objective Planning Techniques in Distribution Networks: A Composite Review. *Energies*, 10(2), 208.	ISI	1.25
37	37	HA, M. P., Huy, P. D., & Ramachandaramurthy, V. K. (2017). A review of the optimal allocation of distributed generation: Objectives, constraints, methods, and algorithms. *Renewable and Sustainable Energy Reviews*, 75, 293-312.	ISI	1.25
38	38	Durairasan, M., Kalaiselvan, A., & Sait, H. H. (2017). Hybrid Technique for Locating and Sizing of Renewable Energy Resources in Power System. *Journal of Electrical Engineering & Technology*, 12(1), 161-172.	BDI	0.75
39	39	Al Ameri, A., & Nichita, C. (2017). Linear model for optimal distributed generation size predication. *Advances in Electrical and Electronic Engineering*, 15(1), 28. (SCOPUS, EBSCO)	BDI	0.75
40	40	Gkaidatzis, P. A., Bouhouras, A. S., Doukas, D. I., Sgouras, K. I., & Labridis, D. P. (2017). Load variations impact on optimal DG placement problem concerning energy loss reduction. *Electric Power Systems Research*, 152, 36-47.	ISI	1.25
41	41	Chen, H., Hu, Z., Jia, Y., & Shen, Z. J. M. (2017). Risk-Averse Joint Capacity Evaluation of PV Generation and Electric Vehicle Charging Stations in Distribution Networks, *IEEE PES Innovation Smart Grids Technologies* (ISGT 2017), Torino, Italia (IEEE Xplore)	BDI	0.75
42	42	Othmann M.M., El-Khattan W., Abdelaziz A.Y., A Firefly based Optimization Algorithm for Optimal Planning of Voltage Controlled Distributed Generators, *Engineering Optimization IV*, 523 – 528, Francis & Taylor Group (SCOPUS)	BDI	0.75
43	43	Sultanaa U., Khairuddina A., Mokhtara A. S., Hussain Qazia S., Sultanaa B., An Optimization Approach for Minimizing Energy Losses of Distribution Systems based on Distributed Generation Placement, *Jurnal Teknologi*, vol. 79, no. 4, pp. 87 – 96, 2017 (SCOPUS)	BDI	0.75
44	44	Bouhouras, Aggelos S., Paschalis A. Gkaidatzis, and Dimitris P. Labridis, Optimal Distributed Generation Placement Problem for Power and Energy Loss Minimization, *Electric Distribution Network Planning*. Springer, Singapore, 2018. 215-251,	ISI	1.25
45	45	Latreche, Y., Bouchekara, H. R. E. H., Kerrour, F., Naidu, K., Mokhlis, H., & Javaid, M. S., Comprehensive review on the optimal integration of distributed generation in distribution systems. *Journal of Renewable and Sustainable Energy*, vol. 10, no. 5, 2018, 055303.	ISI	1.25
46	46	Agarwal, U., & Jain, N., Distributed Energy Resources and Supportive Methodologies for their Optimal Planning under Modern Distribution Network: a Review, *Technology and Economics of Smart Grids and Sustainable Energy*, *4*(1), 3, 2019	BDI	0.75
47	47	TU, Haicheng, et al. Optimal robustness in power grids from a network science perspective, *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 66, no. 1, 2019, pp. 126-130.	ISI	1.25

				52.25
		Lucrarea citată	**Nr. autori**	
		Bobric E.C., Cârţină Gh., **Grigoraş Gh**, *Clustering Techniques in Load Profile Analyze for Distribution Stations*, Journal of Advances in Electrical and Computer Engineering, Romania, Nr.1, 2009, pp. 63 – 66, ISSN: 1582 – 7445	3	
		Lucrarea care citează	**Tip**	**Punctaj**
48	1	Rogers, D. F., & Polak, G. G. (2013). Optimal clustering of time periods for electricity demand-side management. *IEEE Transactions on Power Systems*,*28*(4), 3842-3851.	ISI	1.66
49	2	Filote, C., Ciufudean, C., Alaci, S., & Cozgarea, A. M. (2011, August). Wavelet multiresolution analysis of TPRD and RNSIC input current. In *11th WSEAS International Conference on signal processing, computational geometry and artificial vision* (pp. 158-165). (SCOPUS)	BDI	1
50	3	Filote, C., Ciufudean, C., & Cozgarea, A. M. (2009, September). A comparative analysis of total harmonic distortion in TPRD and RNSIC. In *2009 13th European Conference on Power Electronics and Applications*.	ISI	1.66
51	4	Piao, M., Li, M., & Ryu, K. H. (2010, June). Using Significant Classification Rules to Analyze Korean Customers' Power Consumption Behavior: Incremental Tree Induction using Cascading-and-Sharing Method. In *2010 10th IEEE International Conference on Computer and Information Technology*. (IEEE Xplore)	BDI	1
52	5	Filote, C., Ciufudean, C., Musteata, F., Chirila, O., & Cozgarea, A. M. (2010). New method for power factor correction with RNSIC. In *Proc. of Int. Conf. on Circuits, Systems, Signals, CSS* (pp. 353-358).	ISI	1.66
53	6	Komenda, T., & Komenda, N. (2012). Morphometrical analysis of daily load graphs. *International Journal of Electrical Power & Energy Systems*, *42*(1), 721-727.	ISI	1.66
54	7	Varga, E. D., Beretka, S. F., Noce, C., & Sapienza, G. (2015). Robust real-time load profile encoding and classification framework for efficient power systems operation. *IEEE Transactions on Power Systems*, *30*(4), 1897-1904.	ISI	1.66
55	8	Beretka, S. F., & Varga, E. D. (2013). Efficient encoding of customer class load profiles. In *2013 Africon*, Pointe aux Piments, MAURITIUS.	ISI	1.66
56	9	Beretka, S. F., & Varga, E. D. (2013, October). Locality sensitive hashing of customer load profiles. In *2013 International Conference on Renewable Energy Research and Applications (ICRERA)*.	ISI	1.66
57	10	Brabec, M., Konár, O., Malý, M., Kasanický, I., & Pelikán, E. (2015). Statistical models for disaggregation and reaggregation of natural gas consumption data. *Journal of Applied Statistics*, *42*(5), 921-937.	ISI	1.66
58	11	Filote, C., Ciufudean, C., Micea, M. V., & Cozgarea, A. M. Power Factor Improvement Using Rnsic Rectifier, *Proceedings of the IASTED International Conference*, November 24 - 26, 2010 Phuket, Thailand, Power and Energy Systems (AsiaPES 2010) (SCOPUS)	BDI	1
59	12	Rahideh, A., Gitizadeh, M., & Sadrzadeh, A. (2015, April). Voltage and reactive power control in a distribution system using hybrid SA-DBPSO algorithm. In *Electrical Power Distribution Networks Conference (EPDC), 2015 20th Conference on* (pp. 72-77).	ISI	1.66
60	13	Mujović, S., Djukanović, S., Radulović, V., Katić, V., & Rašović, M. (2013). Least Squares Modeling of Voltage Harmonic Distortion Due to PC Cluster Operation. *Advances in Electrical and Computer Engineering*, *13*(4).	ISI	1.66
61	14	Mets, K., Depuydt, F., & Develder, C. (2015), Two-Stage Load Pattern Clustering Using Fast Wavelet Transformation, IEEE Transactions on Smart Grid, Vol. 7 , nr. 5, pp. 2250 – 2259, 2016.	ISI	1.66
62	15	Malik, F. H., Mubbashir, A., & Lehtonen, M. (2014). Collaborative Demand Response Optimization of Electric Vehicles and Storage Space Heating for Residential Peak Shaving. *International Review of Electrical Engineering (IREE)*, *9*(6), 1154-1161. (SCOPUS)	BDI	1
63	16	Blagojević, M., Micić, Ž., & Vujičić, M. (2016). Cluster analysis of knowledge sources in standardized electrical engineering subfields. Serbian Journal of Electrical Engineering, 13(3), 405-422. (SCOPUS)	BDI	1
64	17	Aun, S. L. Z., Marsadek, M. B., & Ramasamy, A. K. (2017). Small	BDI	1

		Signal Stability Analysis of Grid Connected Photovoltaic. Indonesian Journal of Electrical Engineering and Computer Science, 6(3). (SCOPUS)		
65	18	Mujović, S., Djukanović, S., & Katić, V. A. (2017). Simultaneous Operation of Personal Computers and Mathematical Assessment of Their Harmonic Impact on the Grid. In *Advanced Technologies, Systems, and Applications* (pp. 57-79). (Springer).	BDI	1
66	19	IQTEIT, Nassim; ARSOY, Ayşen Basa; ÇAKIR, Bekir. Load Profile-Based Power Loss Estimation for Distribution Networks. *Journal Of Electrical And Electronics Engineerin ,* vol. 18, no. 2, pp. 275-283, 2018.	ISI	1.66
67	20	DEHNING, Patrick, et al. Load profile analysis for reducing energy demands of production systems in non-production times. *Applied Energy*, vol. 237, pp. 117-130, 2019	ISI	1.66
				28.58
		Lucrarea citată	**Nr. autori**	
		Bobric E.C., Cârţină Gh., **Grigoraş Gh**., *Fuzzy Techniques used for Energy Losses Determination in Medium and Low Voltage Networks*, Journal of Electronics and Electrical Engineering, Lituania, Nr. 2 (90), 2009, pp. 95 – 98	3	
		Lucrarea care citează	**Tip**	**Punctaj**
68	1	Lisauskas, S., & Rinkevičienė, R. (2015). Model of ventilation system drive with Fuzzy controller. *Elektronika ir Elektrotechnika*, *106*(10), 13-16.	ISI	1.66
69	2	Han, Y., Xu, L., Yao, G., Zhou, M., & Chen, C. (2015). The adaptive signal processing scheme for power quality conditioning applications based on active noise control (ANC). *Elektronika ir Elektrotechnika*, *96*(8), 9-14.	ISI	1.66
70	3	Juraitis, S., Rinkeviciene, R., & Kriauciunas, J. (2011). Fuzzy Controller of Two-mass System. *Elektronika ir Elektrotechnika*, *116*(10), 3-6.	ISI	1.66
71	4	Sylwester, F. (2011). Application of Classifier System and Co-Evolutionary Algorithm in Optimization of Medium-Voltage Distribution Networks Post-Fault Configuration. *Elektronika ir Elektrotechnika*, *115*(9), 9-15	ISI	1.66
72	5	Filote, C., Ciufudean, C., & Cozgarea, A. M. (2009, September). A comparative analysis of total harmonic distortion in TPRD and RNSIC. In *2009 13th European Conference on Power Electronics and Applications*.	ISI	1.66
73	6	Stępień, J., & Filipiak, S. (2014). Optimisation of Distribution Network Configuration with the Aid of Co-Evolutionary Algorithm with Regard for Reliability Coefficients Varying During Operation of Network Elements.*Universal Journal of Electrical and Electronic Engineering*, *2*(3), 97-104. (EBSCO, ProQuest)	BDI	1
74	7	Erguzel, T. T. (2013). Fuzzy controller parameter optimization using genetic algorithm for a real time controlled system. In *Proceedings of the World Congress on Engineering* (Vol. 2, pp. 3-5).	ISI	1.66
				11
		Lucrarea citată	**Nr. autori**	
		Gh. Grigoras, Gh. Cartina, M. Gavrilas, *Using of Clustering Techniques in Optimal Placement of Phasor Measurements Units",* , Proceedings of the 9th WSEAS/IASME International Conference on Electric Power Systems, High Voltages, Electric Machines, Genova, Italy, pp.104-108	3	
		Lucrarea care citează	**Tip**	**Punctaj**
75	1	Takata, M., Miyata, Y., & Nishikawa, N. (2015, March). Proposal of analytics software architecture with data preparation layer for fast event identification in wide-area situational awareness. In *Industrial Technology (ICIT), 2015 IEEE International Conference on* (pp. 1741-1746).	ISI	1.66
76	2	Abdelaziz A. Y., Amr M. Ibrahim, Reham H. Salem (2013), Power system observability with minimum phasor measurement units placement, ,*International Journal of Engineering, Science and Technology,* Vol. 5, No. 3, 2013, pp. 1-18.(ULRICHS)	BDI	1

77	3	Priyadharshini N, Meenakumari R, Priyadharshini M, Optimal Placement of Phasor Measurement Unit based on Power System Loss Index*, Asian Journal of Research in Social Sciences and Humanities*, 2016, Vol. 6, no. 11, pp. 479-491. (IndexCopernicus)	BDI	1
78	4	Priyadharshini, M., & Meenakumari, R. (2014, March). Probabilistic approach based optimal placement of phasor measurement units via the estimation of dynamic vulnerability assessment. In *Green Computing Communication and Electrical Engineering (ICGCCEE), 2014 International Conference on* (pp. 1-7)	ISI	1.66
79	5	Eissa, M., & Kassem, A. (2018). Hierarchical Clustering based optimal PMU placement for power system fault observability. *Heliyon*, vol. *4, no.* 8, e00725.	BDI	1
80	6	Carrión, D., & González, J. W. (2018, November). Optimal PMU Location in Electrical Power Systems Under N-1 Contingency. In 2018 International Conference on Information Systems and Computer Science (INCISCOS) (pp. 165-170)	ISI	1.66
				8
		Lucrarea citată	**Nr. autori**	
		Grigoras, Gh., Cartina, G., & Bobric, E. (2010). Strategies for Power/Energy Saving in Distribution Networks. *Advances in Electrical and Computer Engineering*, *10*(2), 61-64.	3	
		Lucrarea care citează	Tip	**Punctaj**
81	1	Xiao, P., & Liu, D. (2015). Improving network routing energy–efficiency for real–time workloads by stochastic service model. *International Journal of Information and Communication Technology*, *7*(2-3), 302-315. (SCOPUS)	BDI	1
82	2	Peng, X., Peixin, Q., & Xilong, Q. (2013). An Energy-aware Routing Mechanism for Latency-sensitive Traffics. *International Journal of Grid and Distributed Computing*, *6*(6), 23-36 (EBSCO, ProQuest)	BDI	1
83	3	Malik, F. H., Mubbashir, A., & Lehtonen, M. (2014). Collaborative Demand Response Optimization of Electric Vehicles and Storage Space Heating for Residential Peak Shaving. *International Review of Electrical Engineering (IREE)*, *9*(6), 1154-1161.	BDI	1
84	4	Grujić, A., & Stojković, Z. (2016). Fuzzy logic-based concept for high-voltage substation risk management against lightning. *IEEJ Transactions on Electrical and Electronic Engineering*, 11(S1), S28-S36.	ISI	1.66
85	5	Tang, C., Zhu, S., Li, J., Zhang, D., & Yang, J. (2014). A modified optimization model for the location selection of distribution transformer used in rural power network. *Journal of Computers*, *9*(4), 875-882. (EBSCO, ProQuest)	BDI	1
86	6	Sarchiz, D., Dub, V., & Bucur, D. (2010). Optimization Strategies to Increase Electrical Distribution Networks Robustness 20 kV and 110 kV from County Mures. *Scientific Bulletin of the" Petru Maior" University of Targu Mures*, *7*(2), 10. (EBSCO, ProQuest)	BDI	1
87	7	Grujić, A., & Stojković, Z. (2016). Fuzzy logic-based concept for high-voltage substation risk management against lightning. *IEEJ Transactions on Electrical and Electronic Engineering*, *11*(S1), S28-S36.	ISI	1.66
				8.33
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., & Scarlatache, F. (2015). An assessment of the renewable energy potential using a clustering based data mining method. Case study in Romania. *Energy*, *81*, 416-429.	2	
		Lucrarea care citează	Tip	**Punctaj**
88	1	Darvishi, A., & Hassanpour, H. (2015). A Geometric View of Similarity Measures in Data Mining. *International Journal of Engineering-Transactions C: Aspects*, *28*(12), 1728. (SCOPUS)	BDI	1.5
89	2	Sánchez-Lozano, J. M., García-Cascales, M. S., & Lamata, M. T. (2016). Comparative TOPSIS-ELECTRE TRI methods for optimal sites for photovoltaic solar farms. Case study in Spain. *Journal of Cleaner Production*, *127*, 387-398.	ISI	2.5
90	3	Izadyar, N., Ong, H. C., Chong, W. T., & Leong, K. Y. (2016). Resource assessment of the renewable energy potential for a remote	ISI	2.5

		area: a review. Renewable and Sustainable Energy Reviews, 62, 908-923.		
91	4	Onea, F., & Rusu, E. (2016). The expected efficiency and coastal impact of a hybrid energy farm operating in the Portuguese nearshore. Energy, 97, 411-423.	ISI	2.5
92	5	Proskurina, S., Sikkema, R., Heinimö, J., & Vakkilainen, E. (2016). Five years left–How are the EU member states contributing to the 20% target for EU's renewable energy consumption; the role of woody biomass. Biomass and Bioenergy, 95, 64-77.	ISI	2.5
93	6	Yesilbudak, M. (2016, November). Clustering analysis of multidimensional wind speed data using k-means approach. In Renewable Energy Research and Applications (ICRERA), 2016 IEEE International Conference on (pp. 961-965).	ISI	2.5
94	7	Operacz, A. (2017). The term “effective hydropower potential” based on sustainable development–an initial case study of the Raba river in Poland. Renewable and Sustainable Energy Reviews, 75, 1453-1463.	ISI	2.5
95	8	Kandemir, S. Y., & Yaylı, M. Ö. (2016). Investigation of Renewable Energy Sources for Airports. In Sustainable Aviation (pp. 11-16). Springer International Publishing.	BDI	1.5
96	9	Lupu, A. G., Dumencu, A., Atanasiu, M. V., Panaite, C. E., Dumitrașcu, G., & Popescu, A. (2016, August). SWOT analysis of the renewable energy sources in Romania-case study: solar energy. In IOP Conference Series: Materials Science and Engineering (Vol. 147, No. 1, p. 012138	ISI	2.5
97	10	Janczak, D.; Dach, J.; Czekala, W.; et al. (2015), Energy Use Of Greenhouse Waste Materials By Methane Fermentation, Proceedings of the 2nd International Conference On Energy & Environment: Bringing Together Engineering And Economics Book Series: ICEE International Conference on Energy & Environment, Guimaraes, PORTUGAL Date: JUN 18-19, 2015, Pages: 293-299	ISI	2.5
98	11	Czekala, Wojciech; Dach, Jacek; Czekala, Jacek, Operational Possibilities Of A Biogas Plant At The Brewery Under Polish Conditions, Proceedings of the 2nd International Conference On Energy & Environment: Bringing Together Engineering And Economics Book Series: ICEE International Conference on Energy & Environment, Guimaraes, PORTUGAL Date: JUN 18-19, 2015, Pages: 520-525	ISI	2.5
99	12	Zhao, C., Qiao, X., Cao, Y., & Shao, Q. (2017). Application of hydrogen peroxide presoaking prior to ammonia fiber expansion pretreatment of energy crops. Fuel, 205, 184-191.	ISI	2.5
100	13	Chidean, M. I., Caamaño, A. J., Ramiro-Bargueño, J., Casanova-Mateo, C., & Salcedo-Sanz, S. (2017). Spatio-temporal analysis of wind resource in the Iberian Peninsula with data-coupled clustering. Renewable and Sustainable Energy Reviews.	ISI	2.5
101	14	Năstase, G., Şerban, A., Năstase, A. F., Dragomir, G., Brezeanu, A. I., & Iordan, N. F. (2017). Hydropower development in Romania. A review from its beginnings to the present. Renewable and Sustainable Energy Reviews, 80, 297-312.	ISI	2.5
102	15	Sun, M., Teng, F., Konstantelos, I., & Strbac, G.. An objective-based scenario selection method for transmission network expansion planning with multivariate stochasticity in load and renewable energy sources. *Energy*, vol. 145, pp. 871-885, 2018.	ISI	2.5
103	16	Chidean, M. I., Caamaño, A. J., Ramiro-Bargueño, J., Casanova-Mateo, C., & Salcedo-Sanz, S, Spatio-temporal analysis of wind resource in the Iberian Peninsula with data-coupled clustering. *Renewable and Sustainable Energy Reviews*, vol. 81, pp. 2684-2694, 2018	ISI	2.5
104	17	Năstase, G., Șerban, A., Dragomir, G., Brezeanu, A. I., Bucur, I., Photovoltaic development in Romania. Reviewing what has been done. *Renewable and Sustainable Energy Reviews*, vol. *94*, pp. 523-535, 2018	ISI	2.5
105	18	Patarau, T., Petreus, D., Etz, R., & Lazar, E. (2018, August). Techno-Economic Feasibility Study on an Off-Grid Renewable Energy Microgrid for an Isolated Greenhouse in Romania. In 2018 IEEE 18th International Power Electronics and Motion Control Conference	BDI	1.5

		(PEMC), pp. 445-450, 2018.		
106	19	Operacz, A., & Grahl-Madsen, M. (2018). Program Of Hydropower Potential Assessment As An Effective Possibilities In Upper Vistula Water Region In Poland, Acta Sci. Pol. Formatio Circumiectus, vol. 17, no.4, 157–172, 2018	ISI	2.5
107	20	V. Chevhanova, Kseniia Chichulina, Vitaliya Skryl, (2018), Effective Cluster Model of Thermal, *International Journal of Engineering & Technology,* vol. 7, no. 3, pp. 65-70 Power Company Management	BDI	1.5
				46
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., Cartina, G., & Rotaru, F. (2010, October). Using K-means clustering method in determination of the energy losses levels from electric distribution systems. In *Proceedings of the 12th WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, Timisoara, Romania* (pp. 52-6).	3	
		Lucrarea care citează	Tip	**Punctaj**
108	1	Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013. (DOAJ)	BDI	1
				1
		Lucrarea citată	**Nr. autori**	
		Grigoraş, G., & Scarlatache, F. (2014, May). Use of data from smart meters in optimal operation of distribution systems. In *2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* (pp. 179-184).	2	
		Lucrarea care citează	Tip	**Punctaj**
109	1	Dev, V. C., Das, U., Namboodiri, V., Chakraborty, S., Aravinthan, V., Guo, Y., & Srivastava, A. (2015, November). Towards application-aware data concentration schemes for advanced metering infrastructures. In *2015 IEEE International Conference on Smart Grid Communications (SmartGridComm)*(pp. 440-445).	ISI	2.5
110	2	Uribe-Pérez, N., Hernández, L., de la Vega, D., & Angulo, I. (2016). State of the Art and Trends Review of Smart Metering in Electricity Grids. *Applied Sciences*, *6*(3), 68.	ISI	2.5
111	3	Avram, S., Plotenco, V., & Paven, L. N. (2017, May). Design and development of an electricity Meter Test Equipment. *2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP)*, (pp. 96-101). IEEE.	BDI	1.5
112	4	Das, U., & Namboodiri, V. (2019). A Quality-Aware Multi-Level Data Aggregation Approach to Manage Smart Grid AMI Traffic. IEEE Transactions on Parallel and Distributed Systems, 30(2), 245-256.	ISI	2.5
				9
		Lucrarea citată	**Nr. autori**	
		Cartina, G., Grigoras, G., & Bobric, E. C. Clustering techniques for energy losses evaluation in distribution networks. In *2009 IEEE Bucharest PowerTech*.	3	
		Lucrarea care citează	Tip	**Punctaj**
113	1	Zhang, Y. J., Zhang, X. T., Li, Q. H., Ran, L., & Cai, Z. X. (2014). Gray theory based energy saving potential evaluation and planning for distribution networks.*International Journal of Electrical Power & Energy Systems*, *57*, 298-303	ISI	2.5
114	2	Zhang, Y. J., & Zhan, X. T. (2012, September). Study on energy saving potential evaluation for distribution networks. In *Power Engineering and Automation Conference (PEAM), 2012 IEEE* (pp. 1-3).	ISI	2.5
115	3	Chen, B., Cui, T., Ye, L., & Li, C. (2015, November). A comprehensive energy saving potential evaluation method for the distribution networks. In 2015 5th International Conference on Electric Utility Deregulation and Restructuring and Power Technologies (DRPT) (pp. 478-481)	ISI	2.5
116	4	Schlueter, A., Geyer, P., & Cisar, S. (2016). Analysis of	ISI	2.5

		georeferenced building data for the identification and evaluation of thermal microgrids. Proceedings of the IEEE, 104(4), 713-725.		
				10
		Lucrarea citată	**Nr. autori**	
		Cartina, G., Alexandrescu, V., Grigoras, G., & Moshe, M. (2000, May). Peak load estimation in distribution networks by fuzzy regression approach. In*Electrotechnical Conference, 2000. MELECON 2000. 10th Mediterranean* (Vol. 3, pp. 907-910).	4	
		Lucrarea care citează	Tip	**Punctaj**
117	1	Zhong, S., & Tam, K. S. (2012). A frequency domain approach to characterize and analyze load profiles. *IEEE Transactions on Power Systems*, *27*(2), 857-865.	ISI	1.25
118	2	Wang, J. Z., Wu, L., & Lu, H. Y. (2007, November). Special periods peak load analysis and superior forecasting method based on LS-SVM. In *2007 International Conference on Wavelet Analysis and Pattern Recognition* (Vol. 1, profilepp. 249-253).	ISI	1.25
119	3	Zhong, S., Broadwater, R., & Steffel, S. (2017). Medium term stochastic load model for transformer and feeder from AMI load data spectral analysis. International Journal of Electrical Power & Energy Systems, 91, 1-9.	ISI	1.25
120	4	Oztaysi, B., Onar, S. Ç., Bolturk, E., & Kahraman, C. (2018). Fuzzy Forecasting Methods for Energy Planning. In Energy Management—Collective and Computational Intelligence with Theory and Applications (pp. 65-81). Springer, Cham.	BDI	0.75
				4.5
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., Scarlatache, F., & Cartina, G. Load estimation for distribution systems using clustering techniques. In *2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)*	3	
		Lucrarea care citează	Tip	**Punctaj**
121	1	Semeraro, L., Crisostomi, E., Franco, A., Landi, A., Raugi, M., Tucci, M., & Giunta, G. (2014, October). Electrical load clustering: The Italian case. In *IEEE PES Innovative Smart Grid Technologies, Europe* (pp. 1-6).	ISI	1.66
122	2	Ferraro, P., Crisostomi, E., Tucci, M., & Raugi, M. (2016). Comparison and clustering analysis of the daily electrical load in eight European countries. Electric Power Systems Research, 141, 114-123.	ISI	1.66
123	3	Mihai, C., Popa, C., & Mircea, P. M. (2016, September). Load profiling for gas stations using cluster techniques. In Power Electronics and Motion Control Conference (PEMC), 2016 IEEE International (pp. 1041-1048).	ISI	1.66
124	4	Hussain, M. M., Zakaria, Z., Rifin, R., Hussin, M. Z., Rahman, N. A., Ilham, N. I., ... & Sani, M. M. (2017, August). Prediction of time series based on load profile using JADE technique. In Control and System Graduate Research Colloquium (ICSGRC), 2017 IEEE 8th (pp. 33-36). (IEEE Xplore).	BDI	1
125	5	Bartolozzi, A., Favuzza, S., Ippolito, M. G., La Cascia, D., Riva Sanseverino, E., & Zizzo, G. (2017). A New Platform for Automatic Bottom-Up Electric Load Aggregation. Energies, 10(11), 1682.	ISI	1.66
126	6	Tanwar, A. K., Crisostomi, E., Ferraro, P., Raugi, M., Tucci, M., & Giunta, G. (2015, July). Clustering analysis of the electrical load in European Countries. In *Neural Networks (IJCNN), 2015 International Joint Conference on* (pp. 1-8). IEEE.	ISI	1.66
				9.33
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., Cartina, G., Istrate, M., & Rotaru, F. (2011). The efficiency of the clustering techniques in the energy losses evaluation from distribution networks. *International Journal of Mathematical Models and Methods in Applied Sciences*, *5*(1), 133-140	3	
		Lucrarea care citează	Tip	**Punctaj**
127	1	Philippopoulos, K., Deligiorgi, D., & Kouroupetroglou, G. (2014), Performance Comparison of Self-Organizing Maps and k-means Clustering Techniques for atmospheric circulation	BDI	1

		classification. *International Journal of Energy and Environment*, *8*, 171-180. (EBSCO, ProQuest)		
				1
		Lucrarea citată	**Nr. autori**	
		Istrate, M., & Grigoraş, G. (2010). Energy consumption estimation in water distribution systems using fuzzy techniques. *Environmental Engineering & Management Journal (EEMJ)*, *9*(2).	2	
		Lucrarea care citează	Tip	**Punctaj**
128	1	Bucur, D. M., Bunea, F., Ciocan, G. D., Băran, G., & Isbăşoiu, E. C. (2010). Water parameters evolution in a hydroelectric site. *Environmental Engineering and Management Journal*, *9*(11), 469-472.	ISI	2.5
129	2	Geng, Y., Zhang, J., Zhou, Q., Xu, C., & Zhao, Y. Q. (2011). Fuzzy synthetic evaluation of Weihe water quality, *Environmental Engineering and Management Journal*, 10 (10), 1477-1484.	ISI	2.5
130	3	Moraru, G., & Istrate, M. (2017, June). Elements of energy efficiency in water supply systems. A case study. In Modern Power Systems (MPS), 2017 International Conference on (pp. 1-4). (IEEE.Xplore)	BDI	1.5
131	4	Hsueh, S., & Cheng, A. (2017). Improving Air Quality in Communities By Using A Multicriteria Decision-Making Model Based On Big Data: A Critical Review. *Applied Ecology And Environmental Research*, 15(2), 15-31.	ISI	2.5
				9
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., Cartina, G., Bobric, E. C., & Rotaru, F. (2010, May). Evaluation of the performances of efficient transformers in distribution networks by fuzzy techniques. In *Optimization of Electrical and Electronic Equipment (OPTIM), 2010 12th International Conference on* (pp. 1281-1284).	4	
		Lucrarea care citează	Tip	**Punctaj**
132	1	Cardenas, J. A., Gemoets, L., Rosas, J. H. A., & Sarfi, R. (2014). A literature survey on smart grid distribution: an analytical approach. *Journal of Cleaner Production*, *65*, 202-216.	ISI	1.25
133	2	Andruşcă, M., Adam, M., Baraboi, A., Dragomir, A., & Munteanu, A. (2014, October). Using fuzzy logic for diagnosis of technical condition of power circuit breakers. In *Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on* (pp. 268-273)	ISI	1.25
				2.5
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., Cartina, G., & Bobric, E. C. (2010, April). An improved fuzzy method for energy losses evaluation in distribution networks. In *Melecon 2010-2010 15th IEEE Mediterranean Electrotechnical Conference* (pp. 131-135).	3	
		Lucrarea care citează	Tip	**Punctaj**
134	1	Sharma, D. D., & Singh, S. N. (2015). Aberration detection in electricity consumption using clustering technique. *International Journal of Energy Sector Management*, *9*(4), 451-470. (SCOPUS)	BDI	1
135	2	Wang, Y., Li, L., & Yang, Q. (2015, August). Application of clustering technique to electricity customer classification for load forecasting. In *Information and Automation, 2015 IEEE International Conference on* (pp. 1425-1430).	ISI	1.66
136	3	Sanchez, V. A., Lima, D. A., Ochoa, L. F., & Oliveira, M. E. (2015, June). Statistical Top-Down approach for energy loss estimation in distribution systems. In *PowerTech, 2015 IEEE Eindhoven* (pp. 1-6).	ISI	1.66
137	4	Morales, D. X., Toledo, M. A., Vintimilla, J. H., & Medina, R. D. (2016, October). Smart multivariate techniques applied in the budget assignment for loss reduction in ecuador. In PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2016 IEEE (pp. 1-6).	ISI	1.66
138	5	Lezhniuk Peter Demyanovich, Rubanenko, Elena (2016) Valuation of Power Losses In Electrical Networks Of Agro-Industrial Complex by Criterion Method With Use Neuro-Fuzzy Modelling, New solutions in modern technology, vol 18, pp. 60-65. (Index Copernicus)	BDI	1
139	6	Sharma, D. D., Singh, S. N., Jeremy, L. I. N., & Foruzan, E. (2017).	ISI	1.66

		Identification and characterization of irregular consumptions of load data. Journal of Modern Power Systems and Clean Energy, 5(3), 465-477.		
140	7	Honarmand, M. E., Ghazizadeh, M. S., Kermanshah, A., & Haghifam, M. R. (2017). Visibility of Electric Distribution Utility Performance to Manage Loss and Reliability Indices. Journal of Electrical Engineering & Technology, 12(5), 1764-1776.	BDI	1
				9.66
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., Cartina, G., Bobric, E. C., & Barbulescu, C. (2009, June). Missing data treatment of the load profiles in distribution networks. In*PowerTech, 2009 IEEE Bucharest* (pp. 1-5).	4	
		Lucrarea care citează	Tip	**Punctaj**
141	1	Porumb, R., & Seritan, G. (2015). Load Profiles Definition for the Electrical Distribution Operator. *Acta Electrotehnica*, *56*(3). (DOAJ, VINITI)	BDI	0.75
142	2	Radu Porumb, Petru Postolache, George Seriţan, Ramona Vatu, Oana Ceaki (2013). Load Profiles analysis for Electricity Market, *Computational Methods in Social Sciences*, 1(2), 30-38.(ProQuest, Index Copernicus)	BDI	0.75
143	3	Seriţan, G., Porumb, R., Cepişcă, C., & Grigorescu, S. (2016). Integration of Dispersed Power Generation. In Electricity Distribution (pp. 27-61). Springer Berlin Heidelberg.	ISI	1.25
144		Almeida, V. A., Pessanha, J. F., & Caloba, L. P. (2018, May). Load data cleaning with data mining techniques. In *2018 Simposio Brasileiro de Sistemas Eletricos (SBSE)* (pp. 1-6). IEEE	BDI	0.75
				3.5
		Lucrarea citată	**Nr. autori**	
		Scarlatache, F., & Grigoraş, G. (2014, May). Optimal coordination of wind and hydro power plants in power systems. In *2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* (pp. 689-694).	2	
		Lucrarea care citează	Tip	**Punctaj**
145	1	Odero, N. A., & Okinda, V. O. (2015). A review of techniques in optimal sizing of hybrid renewable energy systems. *International Journal of Research in Engineering and Technology*, 4(11), 153-163. (Index Copernicus)	BDI	1.5
146	2	Okinda, V. O., & Odero, N. A. (2016). Modeling, Simulation and Optimal Sizing of a Hybrid Wind, Solar PV Power System in Northern Kenya. *International Journal of Renewable Energy Research* (IJRER), 6(4), 1199-1211 (SCOPUS)	BDI	1.5
147	3	Javaid, M. S., Saeed, N., Al-Awami, A. T., & Khalid, Z. (2016, December). Stochastic versus Robust Optimization of wind-hydro power plant's operational strategy. In Multi-Topic Conference (INMIC), 2016 19th International (pp. 1-5).	ISI	2.5
				5.5
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., & Scarlatache, F. (2013, May). Energy losses estimation in electrical distribution networks with a decision trees-based algorithm. In *2013 8TH International Symposium On Advanced Topics In Electrical Engineering (ATEE)* (pp. 1-4).	2	
		Lucrarea care citează	Tip	**Punctaj**
148	1	Fu, X., Chen, H., Cai, R., & Xuan, P. (2016). Improved LSF method for loss estimation and its application in DG allocation. *IET Generation, Transmission & Distribution*.	ISI	2.5
149	2	Sanchez, V. A., Lima, D. A., Ochoa, L. F., & Oliveira, M. E. (2015, June). Statistical Top-Down approach for energy loss estimation in distribution systems. In *PowerTech, 2015 IEEE Eindhoven* (pp. 1-6). IEEE	ISI	2.5
150	3	Wang, S., Dong, P., & Tian, Y. (2017). A Novel Method of Statistical Line Loss Estimation for Distribution Feeders Based on Feeder Cluster and Modified XGBoost. *Energies*, 10(12), 2067.	ISI	2.5
				7.5
		Lucrarea citată	**Nr. autori**	

		Cârţină G, Grigoraş G, Bobric EC *Tehnici de clustering în modelarea fuzzy. Aplicații în energetică,* Casa de editura VENUS, 2005	2	
		Lucrarea care citează	Tip	**Punctaj**
151	1	G. Chicco, *(2012)*, Overview and performance assessment of the clustering methods for electrical load pattern grouping, Energy, 42(1), 68-80.	ISI	1.66
152	2	G. Chicco (2010) Clustering Methods For Electrical Load Pattern Classification, Scientific Bulletin of the Electrical Engineering Faculty, 10(3). Pp. 5 -13. (Index Copernicus)	BDI	1
153	3	E.C. Bobric, D. Eremiam, GIS and 3D in Land Regsitration of the Electric Networks, Environmental Science and Information Application Technology, Editor: David Chan, pp. 293 – 296, 2015 (Taylor &Francis)	BDI	1
				3.66
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., & Istrate, M. (2011) An efficient clustering method in evaluation of the electric energy consumption from water hydrophore stations.*International Review on Modelling and Simulations*, *4*(2).	2	
		Lucrarea care citează	Tip	**Punctaj**
154	1	Moraru, G., Istrate, M. (2017, June). Elements of energy efficiency in water supply systems. A case study. In *Modern Power Systems (MPS), 2017 International Conference on* (pp. 1-4). IEEE Xplore	BDI	1.5
155	2	Yan, J., Qi, M., Fang, L., Wang, Y., & Yu, J. (2013). Using Multi-Vector DBSCAN Algorithm to Cluster the Distribution of Urban Water Point. *International Review on Computers and Software (IRECOS)*, *8*(1), 170-173.	BDI	1.5
				3
		Lucrarea citată	**Nr. autori**	
		Scarlatache, F., & Grigoras, G. (2014, October). Influence of wind power plants on power systems operation. In *Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on* (pp. 1010-1014).	2	
		Lucrarea care citează	Tip	**Punctaj**
156	1	Ali, S. A., Nawaz, M. F., Bilal, M., Ahmad, F., & Hayat, U. Y. (2015, June). Modeling of wind power plant using MATLAB. In *Power Generation System and Renewable Energy Technologies (PGSRET), 2015* (pp. 1-5)	ISI	2.5
157	2	Wang, J., Fang, K., Pang, W., & Sun, J. (2017). Wind Power Interval Prediction Based on Improved PSO and BP Neural Network. Network, Journal of Electrical Engineering & Technology, vol. 12. Pp. 1921-1927 (SCOPUS)	BDI	1.5
158	3	Igbinovia, F., Fandi, G., Ahmad, I., Muller, Z., & Tlusty, J. (2018). Modeling and Simulation of the Anticipated Effects of the Synchronous Condenser on an Electric-Power Network with Participating Wind Plants. Sustainability, 10(12), 4834.	ISI	2.5
159	4	Ananwattanaporn, S., Ngaopitakkul, A., Jettanasen, C., Pothisarn, C., & Leelajindakrairerk, M. (2018). Influence of Wind Farm on Distribution System: Current Characteristics During Fault Occurrence. In Exergy for A Better Environment and Improved Sustainability 2 (pp. 881-905). Springer, Cham.	BDI	1.5
				8
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., Barbulescu, C., Cartina, G., & Comanescu, D. (2012). Human Errors Monitoring in Electrical Transmission Networks, *Journal of Energy and Power Engineering*, 6(3), 425-428.	4	
		Lucrarea care citează	Tip	**Punctaj**
160	1	Wójcicki, T. (2015), Synergy Model of Artificial Intelligence and Augmented Reality in the Processes of Exploitation of Energy Systems. *Journal of Energy and Power Engineering*, 10, 425-428 (EBSCO)	BDI	0.75
				0.75
		Lucrarea citată	**Nr. autori**	
		Comanescu, D., Grigoras, G., Cartina, G., & Rotaru, F. (2010, May). Determination of typical load profiles in hydro-power plant by	4	

		clustering techniques. In *Optimization of Electrical and Electronic Equipment (OPTIM), 2010 12th International Conference on* (pp. 1294-1297).		
		Lucrarea care citează	Tip	**Punctaj**
161	1	Surai, J., & Surapatana, V. (2014, March). Load factor improvement in industrial sector using load duration curves. In *Electrical Engineering Congress (iEECON), 2014 International* (pp. 1-4).	ISI	1.25
				1.25
		Lucrarea citată	**Nr. autori**	
		Kriukov, A., Grigoras, G., Gavrilas, M., Scarlatache, F., & Neagu, B. *(2014) Use of fuzzy techniques in reliability assessment of electric distribution systems*. in Proceedings of IEEE 16th international conference on harmonics and quality of power (ICHQP) (pp. 29–33)	5	
		Lucrarea care citează	Tip	**Punctaj**
162	1	Eduardo Verri Liberadoa, Fernando Pinhabel Marafãob, Marcelo Godoy Simõesc, Wesley Angelino de Souzaa, José Antenor Pomilioa (2015*),* Novel expert system for defining power quality compensators, *Expert Systems with Applications,* 42(7), 3562–3570	ISI	1
163	2	Suat Ozdemir, Metin Demirtaș, Serkan Aydin, Energy Distribution System Harmonic Estimation With Fuzzy Estimation Method, *International Journal of Scientific Research in Information Systems and Engineering* (IJSRISE) Vol. 2, no. 1, April-2016 (Index Copernicus)	BDI	0.6
164	3	Andruşcă, M., Adam, M., Baraboi, A., Dragomir, A., & Munteanu, A. (2014, October). Using fuzzy logic for diagnosis of technical condition of power circuit breakers. In Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on (pp. 268-273). IEEE.	ISI	1
165	4	ShinyPradeepa, A., & Vaithilingam, C. (2017). Voltage Profile Assessment in Power Distribution System Using Generalized Regression Neural Network. Energy Procedia, 117, 209-215 (SCOPUS).	BDI	0.6
				3.2
		Lucrarea citată	**Nr. autori**	
		Cârţină Gh, Hua-Song Y., Grigoraş Gh, *Optimal Operation and Planning of Power Systems,* Casa de Editura VENUS, Iasi, 2003:	3	
		Lucrarea care citează	Tip	**Punctaj**
166	1	Bobric, E. C., Irimia, D., Rata, G., & Rata, M. Planning and Management of the Power System Using Dsatools'software, *ANNALS of the ORADEA UNIVERSITY*, Fascicle of Management and Technological Engineering, Volume IX (XIX), 2010, NR1 (Index Copernicus)	BDI	1
				1
		Lucrarea citată	**Nr. autori**	
		Fl. Scarlatache, Gh. Grigoras (2012) An Approach Regarding the Placement Of Distributed Generation Sources In Electric Distribution Systems Using Hurwitz Criterion, *Buletinul Institului Politehnic din Iasi*, Seria Electrotehnica, Energetica, Tomul LVIII(LXII), 4, 109 – 117	2	
		Lucrarea care citează	Tip	**Punctaj**
167	1	Jureedi, N. K., Rosalina, K. M., & Kumar, N. P. Clustering Analysis And Its Application in Electrical Distribution System, *International Journal of Electrical, Electronics and Computer Systems* (IJEECS), Vol.1, No. 1, 2013 (ULRICSWEB).	BDI	1.5
				1.5
		Lucrarea citată	**Nr. autori**	
		Grigoras G, Alexandrescu V, Cartina G. (2013), Estimation of Power/Energy Losses in Electric Distribution Systems based on an Efficient Method, *TELKOMNIKA Indonesian Journal of Electrical Engineering*, 11(9), 4854-4860	3	
		Lucrarea care citează	Tip	**Punctaj**
168	1	Hui Gao, Yingjun Wu The Research Status and Development Trend of Electric Vehicle Power Supply Technology*, TELKOMNIKA Indonesian Journal of Electrical Engineering*, 12(11), 7690-7696. (SCOPUS)	BDI	1

169	2	Mlakic, D., Nikolovski, S. N., & Knezevic, G. (2016). An Adaptive Neuro-Fuzzy Inference System in Assessment of Technical Losses in Distribution Networks. *International Journal of Electrical and Computer Engineering*, 6(3), 1294-1304. (SCOPUS)	BDI	1
				2
		Lucrarea citată	**Nr. autori**	
		Cartina G, Grigoras G, Bobric EC, Comanescu D (2009), Improved fuzzy load models by clustering techniques in optimal planning of distribution networks. In: PowerTech, 2009 IEEE Bucharest, pp 1, 6, June 28 2009–July 2 2009	4	
		Lucrarea care citează	Tip	**Punctaj**
170	1	Hui Gao, Yingjun Wu, Management of the Power Distribution Network Reconstruction Process Using Fuzzy Logic, Mirza Saric, Jasna Hivziefendic, Advanced Technologies, Systems, and Applications Volume 3 of the series Lecture Notes in Networks and Systems pp 155-172, 2016 (Springer)	BDI	0.75
171	2	Lezhniuk Peter Demyanovich, Rubanenko, Elena (2016) Valuation of Power Losses In Electrical Networks Of Agro-Industrial Complex by Criterion Method With Use Neuro-Fuzzy Modelling, *New solutions in modern technology*, vol 18, pp. 60-65. (Index Copernicus)	BDI	0.75
172	3	Paul Zehetbauer, Matthias Stifter, Bharath Varsh Rao, Phase preserving profile generation from measurement data by clustering and performance analysis: a tool for network planning and operation, Computer Science - Research and Development, Special Issue Paper, pp. 1 – 11, 2017 (Springer)	BDI	0.75
173	4	Franco, C., Nielsen, K., & Kerstens, P. J. (2018, July). Uncertainty management for classification and benchmarking of energy-use preference profiles. In 2018 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) (pp. 1-8). IEEE.	BDI	0.75
				3
		Lucrarea citată	**Nr. autori**	
		Vicol, B., Gavrilas, M., Ivanov, O., Neagu, B., & Grigoras, G. (2014, May). Synchrophasor measurement method for overhead line parameters estimation in MV distribution networks. In Harmonics and Quality of Power (ICHQP), 2014 IEEE 16th International Conference on (pp. 862-865). IEEE.	4	
		Lucrarea care citează	Tip	**Punctaj**
174	1	Zelenskii, E. G., Kononov, Y. G., & Levchenko, I. I. (2016). Identification of the parameters of distribution networks by synchronized current and voltage measurements. Russian Electrical Engineering, 87(7), 363-368. (Springer)	BDI	0.6
175	2	Chishti, S. O. A., Naseem, S. A., Uddin, R., Saleem, M. H., & Naseem, S. W. Intelligent Control System to Identify Fault in Distribution Network of Smart Grid through Neural Network, 2019 4th International Electrical Engineering Conference (IEEC 2019), Jan, 2019 at IEP Centre, Karachi, Pakista.	BDI	0.6
				1.2
		Lucrarea citată	**Nr. autori**	
		Banerjee, A., Chattopadhyay, S., Mukhopadhyay, A. K., & Gheorghe Grigoras (2016, March). A fuzzy-ACO algorithm to enhance reliability optimization through energy harvesting in WSN. In Electrical, Electronics, and Optimization Techniques (ICEEOT), International Conference on (pp. 584-589). IEEE.	4	
		Lucrarea care citează	Tip	**Punctaj**
176	1	Sharma, S., & Kushwah, R. S. (2017, March). Aco based wireless sensor network routing for energy saving. In Inventive Communication and Computational Technologies (ICICCT), 2017 International Conference on (pp. 150-154). (IEEE Xplore)	BDI	0.75
				0.75
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., & Neagu, B. C. (2015, June). Market Clearing Price Forecasting in Deregulated Electricity Markets Using a Fuzzy Approach. In 6th International Conference on Modern Power Systems, MPS (pp. 113-117).	2	

		Lucrarea care citează	Tip	Punctaj
177	1	Dumbrava, V., Lazaroiu, G. C., Teliceanu, M., & Gilca, G. (2017, June). Educational software package for electricity market laboratory. In Modern Power Systems (MPS), 2017 International Conference on (pp. 1-5). IEEE Xplore	BDI	1.5
				1.5
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., & Scarlatache, F. (2014, October). Knowlegde extraction from Smart Meters for consumer classification. In Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on (pp. 978-982). IEEE.	2	
		Lucrarea care citează	Tip	**Punctaj**
178	1	Biscarri, F., Monedero, I., García, A., Guerrero, J. I., & León, C. (2017). Electricity clustering framework for automatic classification of customer loads. Expert Systems with Applications, vol. 86, pp. 54 -63.	ISI	2.5
179	2	Siemaszko, D., Speiser, M., (2017, September) Use of data-mining for non-invasive signature recognition in micro-grids: A preliminary approach applied to residential areas with PV converters, 19th European Conference on Power Electronics and Applications (EPE'17 ECCE Europe), Warsaw, Poland. (IEEE Xplore)	BDI	1.5
180	3	Panapakidis, I., & Christoforidis, G. (2018). Optimal Selection of Clustering Algorithm via Multi-Criteria Decision Analysis (MCDA) for Load Profiling Applications. *Applied Sciences*, *8*(2), 237.	ISI	2.5
				6.5
		Lucrarea citată	**Nr. autori**	
		Neagu Bogdan-Constantin, Gheorghe Grigoras, Assessment of Slow Voltage Variations from the Electric Distribution Systems with Fuzzy Techniques, ECAI 2015-International Conference — 7th Edition Electronics Computers and Artificial Intelligence 25 June-27 June, 2015.	2	
		Lucrarea care citează	Tip	**Punctaj**
181	1	Anis Ur Rehman ; Muhammad Abid Mengal ; Ishtiaq Ahmad ; Atiq Ur Rehman ; Sheharyar Mehmood, Voltage fluctuations and very low voltage profile problems in distribution system under extreme load growth, Power and Energy Engineering Conference (APPEEC), 2016 IEEE PES Asia-Pacific, pp. 205 – 210, 2016, Xi'an, China.	ISI	2.5
				2.5
		Lucrarea citată	**Nr. autori**	
		Neagu, B. C., Grigoraş, G., Scarlatache, F. (2017, March). Outliers discovery from Smart Meters data using a statistical based data mining approach. In *Advanced Topics in Electrical Engineering (ATEE), 2017 10th International Symposium on* (pp. 555-558). IEEE.	3	
		Lucrarea care citează	Tip	**Punctaj**
182	1	Marzal, S., Salas, R., González-Medina, R., Garcerá, G., Figueres, E. (2017). Current challenges and future trends in the field of communication architectures for microgrids. *Renewable and Sustainable Energy Reviews*, 2017.	ISI	1.66
183	2	Ge, M., Bangui, H., & Buhnova, B. (2018). Big data for internet of things: A survey. *Future Generation Computer Systems*, *87*, 601-614.	ISI	1.66
				3.33
		Lucrarea citată	**Nr. autori**	
		Grigoraş G, Gheorghe Cârțină (2013), *The fuzzy correlation approach in operation of electrical distribution systems*, The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, Vol. 32, Nr. 3, pp. 1044-1066	2	
		Lucrarea care citează	Tip	**Punctaj**
184	1	Shahidah, N., Azni, A. H., Alwi, N. H. M., Seman, K., & Bakar, N. H. (2017). Systematic Literature Review: Correlated Fuzzy Logic Rules for Node Behavior Detection in Wireless Sensor Network. *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, *9*(3-3), 109-115. (SCOPUS)	BDI	1.5
				1.5
		Lucrarea citată	**Nr. autori**	
		Grigoraş, G., Neagu, B. C., & Scarlatache, F. (2016, June).	3	

		Estimation of energy losses in distribution transformers using a fuzzy approach. In *Fundamentals of Electrical Engineering (ISFEE), 2016 International Symposium on* (pp. 1-6). IEEE.		
		Lucrarea care citează	Tip	**Punctaj**
185	1	Sureshkumar, R., & Maithili, P. Three Phase Load Balancing and Energy Loss Reduction in Distribution Network Using Labiew (2017), *International Journal of Pure and Applied Mathematics*, 116 (11), 181-189, ISSN: 1311-8080 (SCOPUS)	BDI	1
				1
		Lucrarea citată	**Nr. autori**	
		Scarlatache, F., Grigoraş, G., Chicco, G., & Cârţină, G. (2012, May). Using k-means clustering method in determination of the optimal placement of distributed generation sources in electrical distribution systems. In *Optimization of Electrical and Electronic Equipment (OPTIM), 2012 13th International Conference on* (pp. 953-958). IEEE.	4	
		Lucrarea care citează		
186	1	Jinjin, D., Hao, Z., Qian, Z., Guoli, L., & Binbin, L. (2017, July). Clusters Partitioning of Distribution Network with Distributed Renewable Generators. In *2017 IEEE 7th Annual International Conference on CYBER Technology in Automation, Control, and Intelligent Systems (CYBER)* (pp. 1324-1328)	ISI	**1.25**
187	2	Penangsang, O., Putra, D. F. U., & Kurniawan, T. (2017, August). Optimal placement and sizing of distributed generation in radial distribution system using K-means clustering method. In *Intelligent Technology and Its Applications (ISITIA), 2017 International Seminar on* (pp. 98-103). IEEE.	ISI	**1.25**
188	3	Surbhi Bakshi, Tilak Thakur, Rintu Khanna Investigation on Optimal Placement and Sizing Of Distributed Generation Units Using Optimization Technique, *Research Cell : An International Journal of Engineering Sciences,* vol. 26, no. December 2017, pp. 137 – 142.	BDI	**0.75**
189	4	Milton, M. A., Pedro, C. O., Xavier, S. G., & Guillermo, E. E. (2018). Characterization and Classification of Daily Electricity Consumption Profiles: Shape Factors and k-Means Clustering Technique. In *E3S Web of Conferences* (Vol. 64, p. 08004). EDP Sciences.	BDI	**0.75**
190	5	Ren, H., & Schulz, N. N. (2018, September). An Improved DBSCAN Method for Self-sufficient Microgrid Design. In *2018 North American Power Symposium (NAPS)* (pp. 1-6).	BDI	**0.75**
				4.75
		Lucrarea citată	**Nr. autori**	
		Grigoras, G., Neagu, B. C., Scarlatache, F., & Ciobanu, R. C.,Identification of pilot nodes for secondary voltage control using K-means clustering algorithm. In *Industrial Electronics (ISIE), 2017 IEEE 26th International Symposium on*, pp. 106-110, 2017	4	
		Lucrarea care citează		
191	1	Lopera-Mazo, E. H., & Espinosa, J., Secondary voltage regulation based on average voltage control. TecnoLógicas, vol. 21, no. 42, pp. 63-78, 2018.	BDI	**0.75**
192	2	Di Fazio, A. R., Russo, M., & De Santis, M., Zoning Evaluation for Voltage Optimization in Distribution Networks with Distributed Energy Resources. *Energies*, *12*(3), 390, 2019.	ISI	**1.25**
				2.00
		Lucrarea citată	**Nr. autori**	
		Gheorghe Grigoraș, Cecilia Barbulescu, *Human errors monitoring in electrical transmission networks based on a partitioning algorithm*, International Journal of Electrical Power and Energy Systems, vol. 49, pp. 128–136, 2013,	**2**	
		Lucrarea care citează		
193	1	Song, B., Wang, Z., Lu, Y., Teng, X., Chen, X., Zhou, Y., ... & Fu, S. (2018, July). A Multidimensional Workload Assessment Method for Power Grid Dispatcher. In *International Conference on Engineering Psychology and Cognitive Ergonomics* (pp. 55-68). Springer, Cham.	BDI	**1.5**
				1.5
		Lucrarea citată	**Nr. autori**	
		Florina Scarlatache, **Gheorghe Grigoraş**, Bogdan-Constantin Neagu,	**5**	

		Cristina Schreiner, Romeo Ciobanu, *Influence of hybrid energy systems on micro-grids control*, 2017 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 313 – 317, 2017		
		Lucrarea care citează		
194	1	Adachi, T., & Yachi, T. (2018, December). Dependence of Electrical Power Leveling Characteristics on Battery Discharge Rate in a Microgrid. In *2018 International Conference on Smart Grid (icSmartGrid)* (pp. 23-27). IEEE.	BDI	**0.6**
				0.6
		Lucrarea citată	**Nr. autori**	
		Florina Scarlatache, **Gheorghe Grigoraș**, *Placement of DG sources using a clustering based partitioning method in distribution systems*, 2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 868 – 872, 2015	**2**	
		Lucrarea care citează		
195	1	Mehmood, K. K., Kim, C. H., Khan, S. U., & Haider, Z. M. (2018). Unified Planning of Wind Generators and Switched Capacitor Banks: A Multiagent Clustering-Based Distributed Approach. IEEE Transactions on Power Systems, 33(6), 6978-6988.	ISI	**2.5**
				2.5
		Lucrarea citată	**Nr. autori**	
		Bogdan-Constantin Neagu, **Gheorghe Grigoraş**, Florina Scarlatache, Cristina Schreiner, Romeo Ciobanu, *Patterns discovery of load curves characteristics using clustering based data* mining, 2017 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 83 – 87	**5**	
		Lucrarea care citează		
196	1	Qi, J., Xiao, B., & Chen, Y. (2018, July). I-CFSFDP: A Robust and High Accuracy Clustering Method Based on CFSFDP. In 2018 37th Chinese Control Conference (CCC) (pp. 9124-9129). IEEE.	BDI	**0.6**
				0.6
		Lucrarea citată	**Nr. autori**	
		Gheorghe Grigoraș, Ovidiu Ivanov; Mihai Gavrilas, *Customer classification and load profiling using data from Smart Meters*, 12th Symposium on Neural Network Applications in Electrical Engineering (NEUREL), Belgrad, Serbia, pp. 73-78, 2014	**3**	
197	1	Tushar, M. H. K., Zeineddine, A. W., & Assi, C. (2018). Demand-side management by regulating charging and discharging of the EV, ESS, and utilizing renewable energy. IEEE Transactions on Industrial Informatics, 14(1), 117-126.	ISI	**1.66**
				1.66
		Lucrarea citată	**Nr. autori**	
		Gheorghe Grigoraș, Florina Scarlatache, Bogdan-Constantin Neagu, *Analysis of energy saving solutions based on replacement of distribution transformers*, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, pp. 66 – 71, 2017	**3**	
		Lucrarea care citează		
198		Lepadat, I., Helerea, E., Abagiu, S., & Mihai, C. (2017, October). Losses in power supply system of industrial consumers—A technical and economic issue. In *2017 5th International Symposium on Electrical and Electronics Engineering (ISEEE)* (pp. 1-6). IEEE.	**ISI**	**1.66**
				1.66
		Lucrarea citată	**Nr. autori**	
		Gheorghe Grigoraș, Bogdan-Constantin Neagu, Florina Scarlatache, *Smart metering based approach for phase balancing in low voltage distribution systems*, 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 551 -554, 2017	**3**	
		Lucrarea care citează		
199		Toma, N., Ivanov, O., Neagu, B., & Gavrila, M. (2018, October). A	ISI	1.66

		PSO Algorithm for Phase Load Balancing in Low Voltage Distribution Networks. In 2018 International Conference and Exposition on Electrical And Power Engineering (EPE) (pp. 0857-0862). IEEE.		
				1.66
		Lucrarea citată	**Nr. autori**	
		Avishek Banerjee, Mihai Gavrilaș, **Gheorghe Grigoraș**, Samiran Chattopadhyay, *Minimization of reliability indices and cost of power distribution systems in urban areas using an efficient hybrid meta-heuristic algorithm*, Soft Computing, On-line: Octombrie 2017	**4**	
		Lucrarea care citează		
200		Bhattacharya, H., Chattopadhyay, S., Chattopadhyay, M., & Banerjee, A. (2019). Storage and Bandwidth Optimized Reliable Distributed Data Allocation Algorithm. *International Journal of Ambient Computing and Intelligence (IJACI)*, *10*(1), 78-95.	**ISI**	**1.25**
				1.25
		Lucrarea citată	**Nr. autori**	
		Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, *An Efficient Metaheuristic Algorithm for Optimal Capacitor Allocation in Electric Distribution Networks*, 2017 2nd International Conference on Software, Multimedia and Communication Engineering (SMCE 2017), Shanghai, China, pp. 327- 332, 2017	2	
		Lucrarea care citează		
201		Neagu, B. C., Gavrilaş, M., & Matei, G. G. (2018, June). Voltage/VAR Control with Reactive Power Injection in Distribution Networks using a Proper Metaheuristic Approach. In 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC/I&CPS Europe) (pp. 1-6). IEEE.	ISI	2.5
				2.5
			TOTAL	**292.84**

3.4. Membru în colectivele de redacţie sau comitete ştiinţifice al revistelor şi manifestărilor ştiinţifice

Nr crt.	Revista/Conferinta	ISI/ BDI	Calitatea	Punctaj
1	Energies http://www.mdpi.com/journal/energies/special_issues/NEFES2016)	ISI	Editor invitat 2016	10
2	Inventi Impact - Journals http://inventi.in/inventi_team/index/2 (Ulrich's)	BDI	Membru in comitetul Editorial	6
3	Network and Communication Technologies (http://www.ccsenet.org/journal/index.php/nct/editor) (Index Copernicus, Ulrich's)	BDI	Membru in comitetul Editorial	6
4	SCIREA Journal of Energy http://www.scirea.org/journal/EditorialBoard?JournalID=48000	NON	Membru in comitetul Editorial	3
5	Computing Conference 2019, 16-17 July 2019 London, UK, http://saiconference.com/Computing2019/Committees	BDI	Membru în comitetul științific	6
6	Computer Vision Conference (CVC), 25-26 April 2019, Las Vegas, Nevada, United States, http://saiconference.com/CVC2019/Committees	BDI	Membru în comitetul științific	6
7	2019 International Conference on Smart Power & Internet Energy Systems, April 25-27, 2019, Deakin University, Melbourne, Australia, http://www.icspies.org/committee.html	ISI	Membru în comitetul științific	10
8	11th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2018, June 27– June 29, 2019, Pitesti, Romania, http://ecai.ro/Organizatori.php	BDI	Membru în comitetul științific	6
9	Intelligent Systems Conference 2019 (IntelliSys 2019), 5-6 September 2019 London, UK, http://saiconference.com/IntelliSys2019/Committees	BDI	Membru în comitetul științific	6

10	Future Technologies Conference (FTC) 2019, 4-15 November 2019 San Francisco, United States http://saiconference.com/FTC2019/Committees	BDI	Membru în comitetul științific	6
11	The 4th International Conference on New Energy and Future Energy System, Macau, China, July 21st-24th, 2019, http://www.intergridconf.org/Committee.html	BDI	Membru în comitetul științific	6
12	The 9th Annual International Conference of Information and Communication Technology (ICICT2019), Nanning, Guangxi, China, January 11-13, 2019 http://www.icictconf.org/menu/committee	BDI	Membru în comitetul științific	6
13	2nd Annual International Conference on Artificial Intelligence and Computer Engineering (AICE2018), Xi'an, Shaanxi, China, 18-20 May, 2018, http://www.aice2018.net/?op=committee	BDI	Membru în comitetul științific	6
14	Computing Conference 2018, 10-12 July 2018, London, UK, http://saiconference.com/Conferences/Computing2018	BDI	Membru în comitetul științific	6
15	5th Annual Conf. on Computational Science & Computational Intelligence (CSCI'18) | Dec 13-15, 2018 | Las Vegas, Nevada, USA https://americancse.org/events/csci2018/committees	BDI	Membru în comitetul științific	6
16	Future Technologies Conference (FTC) 2018, Vancouver , BC, Canada, 13-14 November 2018, http://saiconference.com/Conferences/FTC2018	BDI	Membru în comitetul științific	6
17	Intelligent Systems Conference 2018 (IntelliSys 2018), 6-7 September 2018 London, UK, http://saiconference.com/Conferences/IntelliSys2018	BDI	Membru în comitetul științific	6
18	2018 International Conference on Power, Energy and Intelligent Materials (PEIM2018), June 29-30, 2018 in Wuzhen, China, http://www.peim2018.org/com.html	BDI	Membru în comitetul științific	6
19	The International Conference on Network Engineering and Information Security (NEIS2018), April 20th - 22nd, 2018, Wuhan, China, http://www.neis2018.org/?op=committee	BDI	Membru în comitetul științific	6
20	The 3rd International Conference on New Energy and Future Energy System August 21st - 24th, 2018, Shanghai, China, http://www.intergridconf.org/2018/Committee.html	BDI	Membru în comitetul științific	6
21	2018 International Conference on Materials, Sensors and Smart Manufacturing September 16-17, 2018 in Xiamen, China, http://mssm2018.org/com.html	BDI	Membru în comitetul științific	6
22	2018 International Conference on Information Science and Technology (IST2018), Wuhan, China,during April 20th-22nd, 2018, http://www.icist2018.org/?op=committee	BDI	Membru în comitetul științific	6
23	10th International Conference and Exposition on Electrical and Power Engineering (EPE 2018), Iaşi, Romania, October 18-19, 2018. http://www.epe.tuiasi.ro/2018/wp-content/uploads/2018/10/Program-EPE-2018-final.pdf	ISI	Sesion Chairman	10
24	10th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2018, June 28– June 30, 2018, Iasi, Romania, http://ecai.ro/Ecai%20archive.php	BDI	Sesion Chairman	6
25	The International Conference on Energy and Mechanical Engineering (EME2017), Chengdu, China (http://www.eme2017.org/?op=committee) (Compedex)	BDI	Membru în comitetul științific	6
26	The 2017 International Conference on New Energy and Sustainable Development, Xiamen/Amoy, China, 2017 (http://www.nesd2017.org/?op=committee) (Compedex)	BDI	Membru în comitetul științific	6
27	International Conference on New Energy and Future Energy System, Kunming, Yunnan, China, 2017 (http://www.intergridconf.org/2017/Committee.html) (Compendex)	BDI	Membru în comitetul științific	6
28	The 2017 International Conference on Environmental Science and Sustainable Energy, Suzhou, China, 2017 (http://www.esse2017.org/?op=committee) (Compendex)	BDI	Membru în comitetul științific	6
29	2017 International Conference on Computing Intelligence and Information System, Nanjing, China, 2017 (http://www.ciis2017.org/?op=committee) (Compendex)	BDI	Membru în comitetul științific	6
30	International Conference on Electronics, Computers and Artificial Intelligence (ECAI2017) Targoviste, Romania, 2017 (http://www.ecai.ro) (IEEE Xplore)	ISI	Membru în comitetul de program	10

31	Intelligent Systems Conference (IntelliSys), Londra, United Kingdom, 2017 (http://saiconference.com/IntelliSys2017/Committees) (IEEE Xplore)	BDI	Membru în comitetul științific	6
32	Science and Information (SAI) Conference, London, UK, 2017, (http://saiconference.com/Computing2017/Committees (IEEE Xplore)	BDI	Membru în comitetul științific	6
33	2nd International Conference on Modelling, Simulation and Applied Mathematics(MSAM2017), Bangkok, Thailand, 2017 (http://www.msam2017.org/com.html) (Compendex)	BDI	Membru în comitetul științific	6
34	3rd Annual International Workshop on Wireless Communication and Network, Beijing, China, 2017 (http://www.iwwcn2017.org/?op=committee) (Compendex)	BDI	Membru în comitetul științific	6
35	2nd International Conference on Electrical, Automation and Mechanical Engineering, Shanghai, China, 2017 (http://www.eame2017.org/com.html) (Compendex)	BDI	Membru în comitetul științific	6
36	FTC 2017 - Future Technologies Conference 2017, Vancouver, BC, Canada (http://saiconference.com/FTC2017/Committees) (IEEE Xplore)	BDI	Membru în comitetul științific	6
37	The International Conference on Artificial Intelligence and Computer Engineering (AICE2017), Suzhou, Jiangsu, China, 2017 (http://www.aice2017.org/?op=committee) (Compendex)	BDI	Membru în comitetul științific	6
38	2nd World Congress on Pollution Control & Advances in Environmental Engineering WCPCAEE – 2017, Bangkok , Thailand, 2017, https://bioleagues.com/conference/green_conference/advisory.php	NON	Membru în comitetul științific	3
39	2017 International Conference on Electronic and Information Technology (ICEIT2017), Zhuhai, China, 2017, (http://www.iceit2017.org/?op=committee) (Compendex).	BDI	Membru în comitetul științific	6
40	2017 2nd International Conference on Software, Multimedia and Communication Engineering, Shanghai, China, 2017 (http://www.smce2017.org/com.html) (Compendex)	BDI	General Chair	6
41	5th Annual 2017 International Conference on Geo-Spatial Knowledge and Intelligence (GSKI2017), Chiang Mai, Tailanda, (http://www.grmse2017.org/?op=committee) (Compendex)	BDI	Membru în comitetul științific	6
42	Future Technologies Conference, San Francisco, SUA, 2016 (http://saiconference.com/Conferences/FTC2016)	ISI	Membru în comitetul științific	10
43	International Conference on New Energy and Future Energy System, Beinjing, China, 2016 (http://www.intergridconf.org/2016/Committee.html) (Compendex)	BDI	Membru în comitetul științific	6
44	International Conference on Wireless Communication, Network Security and Signal Processing, Chiang Mai, Thailand, 2016 (http://www.wcnssp2016.org/com.htm) (Compendex)	BDI	Membru în comitetul științific	6
45	SAI Intelligent Systems Conference, Londra, UK, 2016 (http://saiconference.com/Conferences/IntelliSys2016) (Springer)	BDI	Membru în comitetul științific	6
46	Science and Information Conference, Londra, UK, 2016 (http://saiconference.com/Conferences/Computing2016)	ISI	Membru în comitetul științific	10

47	International Conference on Electronics, Computers and Artificial Intelligence, Ploiesti, Romania, 2016 (http://www.ecai.ro)	ISI	Membru în comitetul de program	10
48	SAI Intelligent Systems Conference, Londra, UK, 2015; (http://saiconference.com/Conferences/IntelliSys2015)	ISI	Membru în comitetul științific	10
49	The 2015 International Conference on Computational Science and Computational Intelligence (CSCI'15), Las Vegas, USA, 2015. (http://americancse.org/events/csci2015/committees)	ISI	Membru în comitetul științific	10
50	International Conference on Electrical and Electronics: Techniques and Applications, Phuket, Thailand, 2015; (http://www.eeta2015.org/com.html) (Compendex)	BDI	Membru în comitetul științific	6
51	International Conference on Education, Management and Systems Engineering, Phuket, Thailand, 2015; (http://www.emse2015.org/com.html) (Compendex)	BDI	General Chair	6
52	International Conference on Sustainable Energy and Environmental Engineering, Bangkok, Thailand 2015; (http://www.seee2015.org/com.htm) (Compendex)	BDI	Membru în comitetul științific	6
53	Science and Information Conference, London, UK, 2015 (http://saiconference.com/Downloads/SAIConference2015/SAI%20Conference%20Program.pdf)	ISI	Membru în comitetul științific	10
54	The International Conference on Automatic Control Theory and Application (ACTA 2014), Bangkok, Thailand, 2014 (http://www.actaconf.org/committee.html) (EI Compedex Database)	BDI	Membru in Comitetul stiintific	6
55	The 2014 International Conference on Computational Science and Computational Intelligence, Las Vegas, USA, 2014 (http://www.americancse.org/events/csci2014/committees).	ISI	Membru in Comitetul stiintific	10
56	Science and Information Conference, London, UK, 2014. (www.thesai.org/SAIConference2014)	ISI	Membru in Comitetul stiintific	10
57	Knowledge Management International Conference, 12-15 August, Langkawi, Malaysia, 2014. (http://www.kmice.cms.net.my/kmice2014/committee.asp)	ISI	Membru in Comitetul stiintific	10
58	Science and Information Conference, London, UK, 2013. (www.thesai.org/SAIConference2013) (IEEE Explore Database)	BDI	Membru in Comitetul stiintific	6
59	4th International Conference on Computing and Informatics (ICOCI 2013), Kuching, Sarawak, Malaysia, 2013. (http://www.icoci.cms.net.my/icoci2013/technical.asp) (ISI Proceedings Database)	ISI	Membru in Comitetul stiintific	10
60	International Conference on Computation Theory and Information Technology (CT&IT2013), Taoyuan, Taiwan, 2013. (http://www.ieaoc.org/news_detail2.php?lang=1&id=12 4)	BDI	Membru in Comitetul stiintific	6
61	7th International Conference on Deregulated Electricity Market Issues in South-Eastern Europe, Bucharest, Romania, 2012; (http://system.power.pub.ro/demsee2012/committees.html)	NON	Membru in Comitetul stiintific	3
62	7th International Conference and Exposition on Electrical Engineering, Iasi, Romania, 2012. (http://www.epe.tuiasi.ro/2012)	ISI	Membru in Comitetul de organizare	10
		TOTAL		**423**

3.4. Recenzor pentru reviste și manifestări științifice naționale și internaționale

Nr crt.	Nr. recenziei	Revista/Conferinta	ISI/ BDI	Nr. recenzii	Punctaj
		International Journal of Electrical Power&Energy Systems (http://www.journals.elsevier.com/international-journal-of-electrical-power-and-energy-systems)	**ISI**	**11**	**110**
1	1	Simulation Study on Optimal Allocation and Sizing of Battery Switching Station Units using Artificial Bee Colony Algorithm (IJEPES-D-12-00680)			

2	2	Optimal Placement of Distributed Generation in Radial Distribution Feeders Using Grid Search Method (IJEPES-D-12-00996)			
3	3	Optimal Allocation of Combined DG and Capacitor for Real Power Loss Minimization in Distribution Networks (IJEPES-D-12-01167)			
4	4	Optimal Wind Turbine Sizing to Minimize Energy Loss (IJEPES-D-13-00030)			
5	5	Optimal Allocation of Combined DG and Capacitor for Real Power Loss Minimization in Distribution Networks (IJEPES-D-12-01167R1)			
6	6	Enhancement of Loading Capacity of Distribution System through Distributed Generator Placement considering Techno-economic benefits with load growth (IJEPES-D-13-00266)			
7	7	Enhancement of Loading Capacity of Distribution System through Distributed Generator Placement considering Techno-economic benefits with load growth (IJEPES-D-13-00266R1)			
8	8	Simulation Study on Optimal Placement and Sizing of Battery Switching Station Units using Artificial Bee Colony Algorithm (IJEPES-D-12-00680R1)			
9	9	Investigation of P-V and V-Q based Methods for Voltage and Reactive Power Analysis (IJEPES-D-13-01527)			
10	10	Investigation of P-V and V-Q Based Optimization Methods for Voltage and Reactive Power Analysis (IJEPES-D-13-01527R1)			
11	11	Enhancement of Loading Capacity of Distribution System through Distributed Generator Placement considering Techno-economic benefits with load growth (IJEPES-D-13-00266R1)			
		Journal of Computational Science – Elsevier (http://www.journals.elsevier.com/journal-of-computational-science /)	**ISI**	**6**	**60**
12	1	Control optimization of an aerial robotic swarm in a search task and its adaptation to different scenarios (JOCS_2018_784_R1)			
13	2	Control optimization of an aerial robotic swarm in a search task and its adaptation to different scenarios (JOCS_2018_784)			
14	3	Process monitoring using PCA-based GLR methods: A comparative study (JOCS_2017_1040)			
15	4	Salient Region Detection and Object Segmentation in Color Images Using Dynamic Mode Decomposition (JOCS-D-17-00010)			
16	5	Grey Programming into Uncertain Group Decision-Making in Manufacturing Supply Chains (JOCS-D-16-00483)			
17	6	Idetifying the Radii Limitations for Part Stamped from High-Strength Steel Using Variance Analysis (JOCS-D-13-00168)			
		Energy (http://www.journals.elsevier.com/energy/)	**ISI**	**130**	**1300**
18	1	Modeling of a steam boiler operation using the boiler nonlinear mathematical model (EGY-D-18-07073			
19	2	Analysis of thermal and flow phenomena in natural circulation boiler evaporator (EGY-D-18-06192R1)			
20	3	U.S. Monthly electricity demand forecasting based on an ensemble autoregressive-adaptive neuro-fuzzy inference system-genetic algorithm framework (EGY-D-18-07701)			
21	4	An improved NSGA-III integrating adaptive elimination strategy to solution of many-objective optimal power flow problems (EGY-D-18-05063R1)			
22	5	Analysis of thermal and flow phenomena in natural circulation boiler evaporator (EGY-D-18-06192)			
23	6	The Novel Effects of Parking Lot and Pumped Storage on Smart Grid Unit Commitment Based on a Heuristic Optimization Algorithm (EGY-D-18-05976)			
24	7	Effective energy consumption forecasting using echo state network bagging ensemble hybrid modeling (EGY-D-18-04353)			
25	8	Solving non-convex economic load dispatch problem via artificial cooperative search algorithm (EGY-D-18-04229)			
26	9	An improved NSGA-III integrating adaptive elimination strategy to solution of many-objective optimal power flow problems (EGY-D-18-05063)			
27	10	Integration of renewable energy and demand response technologies in interconnected energy systems (EGY-D-18-00101R1)			
28	11	Energy Saving Techniques and Measurements in Green Wireless communication (EGY-D-17-03268R2)			
29	12	A novel intelligent method to optimally charging of electric vehicles based on load scheduling in power networks (EGY-D-18-01274)			

30	13	Has China's coal consumption already peaked? A demand-side analysis based on hybrid prediction models (EGY-D-17-05873R1)
31	14	Energy Saving Techniques and Measurements in Green Wireless communication (EGY-D-17-03268R1)
32	15	Incorporating combined cycle gas turbine flexibility constraints and additional costs into the EPLANopt model: the Italian case study (EGY-D-17-06776R1)
33	16	Subsampled support vector regression ensemble for short term electric load forecasting (EGY-D-17-02675R2)
34	17	A stochastic programming approach toward optimal design and planning of an integrated green biodiesel supply chain network under uncertainty: A case study (EGY-D-17-03156R1)
35	18	A randomized-algorithm-based decomposition-ensemble learning methodology for energy price forecasting (EGY-D-17-01891R1)
36	19	Integration of renewable energy and demand response technologies in interconnected energy systems (EGY-D-18-00101)
37	20	Decentralized Optimal Multi-Energy Flow of Large-Scale Integrated Energy Systems in a Carbon Trading Market (EGY-D-17-04528R1)
38	21	Fuzzy decision based energy dispatch in offshore industrial microgrid with desalination process and multi-type DGs (EGY-D-17-04259R1)
39	22	Has China's coal consumption already peaked? A demand-side analysis based on hybrid prediction models (EGY-D-17-05873)
40	23	Incorporating combined cycle gas turbine flexibility constraints and additional costs into the EPLANopt model: the Italian case study (EGY-D-17-06776)
41	24	An Effectively Adaptive Selective Cuckoo Search Algorithm for Solving Three Complicated Short-Term Hydrothermal Scheduling Problems (EGY-D-17-01116R1)
42	25	Subsampled support vector regression ensemble for short term electric load forecasting (EGY-D-17-02675R1)
43	26	A stochastic programming approach toward optimal design and planning of an integrated green biodiesel supply chain network under uncertainty: A case study (EGY-D-17-03156)
44	27	Forecasting mid-long term electric energy consumption through bagging ARIMA and exponential smoothing methods (EGY-D-17-02276R1)
45	28	Research and application of a hybrid forecasting framework based on multi-objective optimization for electrical power system (EGY-D-17-01881R2)
46	29	Decentralized Optimal Multi-Energy Flow of Large-Scale Integrated Energy Systems in a Carbon Trading Market (EGY-D-17-04528)
47	30	Estimation of transport energy demand using artificial neural networks (EGY-D-17-04013)
48	31	Fuzzy decision based energy dispatch in offshore industrial microgrid with desalination process and multi-type DGs (EGY-D-17-04259)
49	32	Forecasting mid-long term electric energy consumption through bagging ARIMA and exponential smoothing methods (EGY-D-17-02276)
50	33	An Effectively Adaptive Selective Cuckoo Search Algorithm for Solving Three Complicated Short-Term Hydrothermal Scheduling Problems (EGY-D-17-01116)
51	34	A Two-Stage Robust Investment Model for a Risk-averse Price-maker Power Producer (EGY-D-17-00694R1)
52	35	Subsampled support vector regression ensemble for electric load forecasting (EGY-D-17-02675)
53	36	An objective-based scenario selection method for transmission network expansion planning with multivariate stochasticity in load and renewable energy sources (EGY-D-17-00289R1)
54	37	Energy harvesting with the piezoelectric material integrated shoe (EGY-D-16-04949R2)
55	38	Energy gathering performance of micro/nanoscale circular energy harvesters based on flexoelectric effect (EGY-D-17-01479R1)
56	39	A rolling-horizon optimization algorithm for the long term operational scheduling of cogeneration systems (EGY-D-17-01249)
57	40	A randomized-algorithm-based decomposition-ensemble learning methodology for energy price forecasting (EGY-D-17-01891)
58	41	Energy gathering performance of micro/nanoscale circular energy harvesters based on flexoelectric effect (EGY-D-17-01479)
59	42	Energy harvesting with the piezoelectric material integrated shoe (EGY-D-16-04949R1)

60	43	Calculating the energy rebound effect from the perspective of technological progress—a case study on China's transport sector (EGY-D-16-03986)
61	44	Hourly optimization and sizing of district heating systems considering building refurbishment - Case study for the city of Zagreb (EGY-D-16-05453R1)
62	45	Optimal short-term generation scheduling of hydrothermal systems by implementation of real-coded genetic algorithm based on improved Mühlenbein mutation (EGY-D-16-04723R1)
63	46	A Two-Stage Robust Investment Model for a Risk-averse Price-maker Power Producer (EGY-D-17-00694)
64	47	An objective-based scenario selection method for transmission network expansion planning with multivariate stochasticity in load and renewable energy sources (EGY-D-17-00289)
65	48	Data Size Requirement for Forecasting Daily Crude Oil Price with Neural Networks (EGY-D-17-00768)
66	49	Scenario-based approach for design and comparatively analysis of conventional and renewable energy systems (EGY-D-15-02944R2)
67	50	Hourly optimization and sizing of district heating systems considering building refurbishment - Case study for the city of Zagreb (EGY-D-16-05453)
68	51	Load Forecasting under Changing Climatic Conditions for the City of Sydney, Australia (EGY-D-14-03377R2)
69	52	Optimal short-term generation scheduling of hydrothermal systems by implementation of real-coded genetic algorithm based on improved Mühlenbein mutation (EGY-D-16-04723)
70	53	Breeder Hybrid Algorithm Approach for Natural Gas Demand Forecasting Model (EGY-D-16-04234R1)
71	54	Energy harvesting with the piezoelectric material integrated shoe (EGY-D-16-04949)
72	55	The effect of theft reduction methods on the reduction of unnecessary energy use in electricity distribution system (EGY-D-16-04944)
73	56	Scenario-based approach for design and comparatively analysis of conventional and renewable energy systems (EGY-D-15-02944R1)
74	57	Evaluation of lower heating value and elemental composition of bamboo using near infrared spectroscopy (EGY-D-16-02461R1)
75	58	Modelling non-stationary time series using a peaks over threshold distribution with time varying covariates and threshold: An application to peak electricity demand (EGY-D-15-03991R2)
76	59	Estimating Transportation Energy Demand in Turkey Using the Artificial Bee Colony Algorithm (EGY-D-16-01190R1)
77	60	A hybrid forecasting model based on date-framework strategy and improved feature selection technology for short-term load forecasting (EGY-D-16-02039R1)
78	61	Breeder Hybrid Algorithm Approach for Natural Gas Demand Forecasting Model (EGY-D-16-04234)
79	62	A novel security constraint optimal power flow based on congestion management applying power transfer distribution factors (EGY-D-16-04123)
80	63	Rewarding Cooperative Virtual Power Plant Formation Using Scoring Rules (EGY-D-15-04829R1)
81	64	A novel approach to energy harvesting from vehicle suspension system: Half-Vehicle Model (EGY-D-16-01835R1)
82	65	Optimal Distribution Transformer Sizing in a Harmonic Involved Load Environment via Dynamic Programming Technique (EGY-D-15-03645R2)
83	66	Continuous Fractional-order Grey Model and Electricity Prediction Research Based on the Observation Error Feedback (EGY-D-16-01745R1)
84	67	Modelling non-stationary time series using a peaks over threshold distribution with time varying covariates and threshold: An application to peak electricity demand (EGY-D-15-03991R1)
85	68	Prediction of residential building energy consumption: A neural network approach (EGY-D-15-04080R2)
86	69	A hybrid forecasting model based on date-framework strategy and improved feature selection technology for short-term load forecasting (EGY-D-16-02039)
87	70	Optimization of a Small-Scale LNG Supply Chain (EGY-D-15-02714R1)
88	71	Evaluation of lower heating value and elemental composition of bamboo using near infrared spectroscopy (EGY-D-16-02461)

89	72	Two methods for decreasing the flexibility gap in national energy systems (EGY-D-15-05181R1)
90	73	Simulation of the impacts on carbon dioxide emissions from replacement of a conventional Brazilian taxi fleet by electric vehicles (EGY-D-15-04858R2)
91	74	Continuous Fractional-order Grey Model and Electricity Prediction Research Based on the Observation Error Feedback (EGY-D-16-01745)
92	75	Estimating Transportation Energy Demand in Turkey Using the Artificial Bee Colony Algorithm (EGY-D-16-01190)
93	76	Rewarding Cooperative Virtual Power Plant Formation Using Scoring Rules (EGY-D-15-04829)
94	77	Prediction of residential building energy consumption: A neural network approach (EGY-D-15-04080R1)
95	78	Simulation of the impacts on carbon dioxide emissions from replacement of a conventional Brazilian taxi fleet by electric vehicles (EGY-D-15-04858R1)
96	79	Optimal Distribution Transformer Sizing in a Harmonic Involved Load Environment via Dynamic Programming Technique (EGY-D-15-03645R1)
97	80	Stochastic Energy Management of Renewable Micro-Grids in the Correlated Environment Using Unscented Transformation (EGY-D-15-02011R2)
98	81	Load Forecasting under Changing Climatic Conditions for the City of Sydney, Australia (EGY-D-14-03377R1)
99	82	Reaching the CO2 Cut Targets by 2050 for a Conventional Power Utility - a Sustainability Assessment (EGY-D-15-05178)
100	83	Two methods for decreasing the flexibility gap in national energy systems (EGY-D-15-05181)
101	84	Using the Ensemble Kalman Filter for Electricity Load Forecasting and Analysis (EGY-D-15-00159R2)
102	85	Stochastic Energy Management of Renewable Micro-Grids in the Correlated Environment Using Unscented Transformation (EGY-D-15-02011R1)
103	86	Simulation of the impacts on carbon dioxide emissions from replacement of a conventional Brazilian taxi fleet by electric vehicles (EGY-D-15-04858)
104	87	Degradation Based Optimization Framework for Long Term Applications of Energy Systems, Case Study: Solid Oxide Fuel Cell Stacks (EGY-D-15-02629R1)
105	88	A techno-economic & cost analysis of a turbine power plant (EGY-D-15-03854)
106	89	Index of sustainable renewable energy penetration in island energy system - Case study Lastovo (EGY-D-15-04635)
107	90	Grey Forecasting Models And Least Squares Boosting Algorithms Compared on Short-Term Load Forecasting (EGY-D-15-02113)
108	91	Optimal Distribution Transformer Sizing in a Harmonic Involved Load Environment via Dynamic Programming Technique (EGY-D-15-03645)
109	92	Prediction of residential building energy consumption: A neural network approach (EGY-D-15-04080)
110	93	Using the Ensemble Kalman Filter for Electricity Load Forecasting and Analysis (EGY-D-15-00159R1)
111	94	Mathematical Modeling and Optimization of Transport in Hollow Fiber Membrane Permeators for Gas Separation through Statistical Analysis (EGY-D-15-02992)
112	95	Scenarios Analysis of Best Energy Mix for Road Transportation Sector in Indonesia (EGY-D-15-03126)
113	96	A dynamic model used for controller design of a coal fired once-through boiler-turbine unit (EGY-D-15-01145R1)
114	97	A Multi-level Approach to Active Distribution System Planning for Efficient Renewable Energy Harvesting in a Deregulated Environment (EGY-D-14-04686R1)
115	98	Degradation Based Optimization Framework for Long Term Applications of Energy Systems, Case Study: Solid Oxide Fuel Cell Stacks (EGY-D-15-02629)
116	99	Appraisal of artificial neural network- Genetic algorithm based model for prediction of the power provided by the agricultural tractors (EGY-D-15-01599R1)
117	100	Multi-Region Optimal Deployment of Renewable Energy Considering Different Interregional Transmission Scenarios (EGY-D-15-01697R1)
118	101	Stochastic Energy Management of Renewable Micro-Grids in the Correlated Environment Using Unscented Transformation (EGY-D-15-02011)
119	102	Invariant Properties of Solid Oxide Fuel Cell Systems with Integrated Reformers (EGY-D-15-00374R1)

120	103	Analysis of a Generalized Formulation of MHD Isothermal Flow over Exponentially Stretching Sheet under Variable Magnetic Effect (EGY-D-15-01258)			
121	104	Modelling and Sizing of NaS Battery Energy Storage System for Extending Wind Power Performance in Crete Island (EGY-D-15-00614R1)			
122	105	Multi-Region Optimal Deployment of Renewable Energy Considering Different Interregional Transmission Scenarios (EGY-D-15-01697)			
123	106	Appraisal of artificial neural network- Genetic algorithm based model for prediction of the power provided by the agricultural tractors (EGY-D-15-01599)			
124	107	The Opportunities and Costs for Fuel Savings in U.S. Commercial Air Transportation - An Analysis for Narrow Body Passenger Aircraft (EGY-D-15-01347)			
125	108	A comparative study between artificial neural networks and support vector regression for modeling of the dissipated energy through tire-obstacle collision dynamics (EGY-D-15-00408R1)			
126	109	A dynamic model used for controller design of a coal fired once-through boiler-turbine unit (EGY-D-15-01145)			
127	110	Towards smart city hybrid energy networks: Part I - an optimal infrastructure for district heating networks (EGY-D-15-01109)			
128	111	Invariant Properties of Solid Oxide Fuel Cell Systems with Integrated Reformers (EGY-D-15-00374)			
129	112	Finding a Representative Network Losses Model for Large-scale Transmission Expansion Planning with Renewable Energy Sources (EGY-D-14-03880R1)			
130	113	Modelling and Sizing of NaS Battery Energy Storage System for Extending Wind Power Performance in Crete Island (EGY-D-15-00614)			
131	114	A Methodology for the Synthesis of Heat Exchanger Networks Having Large Numbers of Uncertain Parameters (EGY-D-14-04154R1)			
132	115	A comparative study between artificial neural networks and support vector regression for modeling of the dissipated energy through tire-obstacle collision dynamics (EGY-D-15-00408)			
133	116	A Multi-level Approach to Active Distribution System Planning for Efficient Renewable Energy Harvesting in a Deregulated Environment (EGY-D-14-04686)			
134	117	Technical Overview of Compressed Natural Gas (CNG) as a Transportation Fuel (EGY-D-14-04522)			
135	118	A Methodology for the Synthesis of Heat Exchanger Networks Having Large Numbers of Uncertain Parameters (EGY-D-14-04154)			
136	119	A Hybrid Short-Term Load Forecasting with a New Input Selection Framework (EGY-D-14-03380R1)			
137	120	Finding a Representative Network Losses Model for Large-scale Transmission Expansion Planning with Renewable Energy Sources (EGY-D-14-03880)			
138	121	Analysis of the recoverable energy from natural gas pressure reduction stations: a case study Izmir, Turkey (EGY-D-14-03588)			
139	122	Backstepping Control of Three-level Four-Leg Shunt Active Power Filter Using a Simplified Three-Dimensional SVM (EGY-D-14-02223)			
140	123	A Hybrid Short-Term Load Forecasting with a New Input Selection Framework (EGY-D-14-03380)			
141	124	Residential Electricity Load Forecasting: Evaluation of Individual, Aggregate, and Cluster-based Aggregate Forecasting (EGY-D-14-03176)			
142	125	The Effect of Climate Change on Electricity Needs - A Case Study from Mediterranean Europe (EGY-D-14-00120R1)			
143	126	Estimates of energy consumption in Turkey using neural networks with the teaching-learning-based optimization algorithm (EGY-D-14-01006R1)			
144	127	Key Performance Indicators; A Useful Tool to Assess Smart Grid Goals (EGY-D-13-02651R1)			
145	128	Estimates of energy consumption in Turkey using neural networks with the teaching-learning-based optimization algorithm (EGY-D-14-01006)			
146	129	Key Performance Indicators; A Useful Tool to Assess Smart Grid Goals (EGY-D-13-02651)			
147	130	The Effect of Climate Change on Electricity Needs - A Case Study from Mediterranean Europe (EGY-D-14-00120)			
		IEEE Transaction on Power Systems (http://ieeexplore.ieee.org/xpl/aboutJournal.jsp?punumber=59#AimsScope)	**ISI**	**4**	**40**
148	1	Clustering of Load Profiles to Identify Peak and Abnormal Consumptions (TPWRS-01296-2013)			

149	2	An Improved Method for Energy Losses Estimation in Distribution Networks (TPWRS-00922-2014)			
150	3	Modelling Non-Smooth Voltage-Dependant Loads and Generators in DC Traction Meshed Networks (TPWRS-01560-2014)			
151	4	AMI Data Based Hybrid Weather Dependent Stochastic Load Model for Load Estimation (TPWRS-00281-2015)			
		Energies http://www.mdpi.com/journal/energies	**ISI**	**85**	**850**
152	1	An Improved Artificial Bee Colony Algorithm and Its Application to Multi-Objective Optimal Power Flow (energies-70308) - 26 December 2014			
153	2	An Improved Artificial Bee Colony Algorithm and Its Application to Multi-Objective Optimal Power Flow (energies-70308R1) - 30 Ianuarie 2015			
154	3	Decentralized EV Charging Strategies for Reduced Load Variation and Guaranteed Charge Completion in Regional Distribution Grids (energies-99010)			
155	4	Energy optimization allocation strategy in multi-energy storage system for rail traffic (energies-121778) - 16 Martie 2016			
156	5	Energy optimization allocation strategy in multi-energy storage system for rail traffic (energies-121778R1) – 5 Aprilie 2016			
157	6	Energy optimization allocation strategy in multi-energy storage system for rail traffic (energies-121778R2) – 5 Mai 2016			
158	7	Energy utilization analysis of flexible group in battery energy storage system for the life cycle (energies-132127) – 21 mai 2016			
159	8	Energy utilization analysis of flexible group in battery energy storage system for the life cycle (energies-132127R1) – 21 iunie 2016			
160	9	Design and Simulation of Elliptical Cavity Tube Receivers in the Parabolic Trough Solar Collector: Optical Analysis (energies-159016)			
161	10	Fuel Gas Production from Biomass and Polymeric Wastes with Perovskite La1-xCexMO3 (M= Ni, Co; x=0-0.4) Catalysts (energies-147177)			
162	11	Design and Optical Performance of Compound Parabolic Solar Concentrators with Evacuated Tube as Receivers (energies-144342)			
163	12	Design of Electromagnetic Environment Monitor with Large Range and Three-dimensional High Accuracy (energies-144339)			
164	13	Study on Decoupling Between Economic Growth and Energy Consumption of Beijing (energies-136730)			
165	14	Smoothing Control of Wind Power Fluctuations from Energy Storage System of Electric Vehicles (energies-175338) - 23 Februarie 2017			
166	15	Smoothing Control of Wind Power Fluctuations from Energy Storage System of Electric Vehicles (energies-175338) - 29 Aprilie 2017			
167	16	Optimal Energy Scheduling and Transaction Mechanism for Multiple Microgrids (energies-183016) - 12 Martie 2017			
168	17	Optimal Energy Scheduling and Transaction Mechanism for Multiple Microgrids (energies-183016) - 12 Aprilie 2017			
169	18	Coordinated Control of Multi-type Energy Storages for Wind Power Fluctuations Suppression (energies-187512)			
170	19	Economic optimization of component sizing for residential battery storage systems (energies-198289) – 22 mai 2017			
171	20	Economic optimization of component sizing for residential battery storage systems (energies-198289) – 9 iunie 2017			
172	21	Coordinated Control of Multi-Type Energy Storages for Wind Power Fluctuations Suppression (energies-187512R1) – 1 iulie 2017			
173	22	Coordinated Control of Multi-Type Energy Storages for Wind Power Fluctuations Suppression (energies-187512R2) – 27 iulie 2017			
174	23	Smoothing Control of Wind Power Fluctuations from Energy Storage System of Electric Vehicles (energies-210494)			
175	24	Smoothing Control of Wind Power Fluctuations from Energy Storage System of Electric Vehicles (energies-210494R1)			
176	25	Adaptive Under-Frequency Load Shedding Scheme in System integrated with High Wind Power Penetration: Impacts and Improvements (energies-217470) - 6 August 2017			
177	26	Adaptive Under-Frequency Load Shedding Scheme in System integrated with High Wind Power Penetration: Impacts and Improvements (energies-217470R1) - 30 August 2017			

178	27	Application of a Simplified Thermal-Electric Model of a Sodium-Nickel Chloride Battery Energy Storage System to a Real Case Residential Prosumer (energies-219120) – 24 August 2017
179	28	Application of a Simplified Thermal-Electric Model of a Sodium-Nickel Chloride Battery Energy Storage System to a Real Case Residential Prosumer (energies-219120R1) – 18 Septembrie 2017
180	29	Load shedding control strategy based on transient instability evaluation of power system using Artificial Neural Network and Analytic Hierarchy Process algorithm (energies-227122)
181	30	Dynamic Equivalent Modeling of Microgrid Based on Characteristic Model and Measured Data (energies-231436)
182	31	Optimized design method for storage systems in photovoltaic plants with delivery limitation (energies-234761) – 17 Octombrie 2017
183	32	Optimized design method for storage systems in photovoltaic plants with delivery limitation (energies-234761R1) – 19 Noiembrie 2017
184	33	Optimal Power Assignment of Energy Storage System to Improve the Energy Storage Efficiency for Frequency Regulation (energies-246836)
185	34	Fault tolerant control for flexible group battery energy storage system based on cascaded multilevel converters (energies-246327)
186	35	The study of a Battery Energy Storage System Based on the Hexagonal Modular Multilevel Direct AC/AC Converter (Hexverter) (energies-262863)
187	36	Transformers Health Index Assessment Based on Neural-Fuzzy Network (energies-269584)
188	37	Transformers Health Index Assessment Based on Neural-Fuzzy Network (energies-269584R1)
189	38	Transformers Health Index Assessment Based on Neural-Fuzzy Network (energies-269584R2)
190	39	Grey Wolf Optimization Based Optimum Energy Management and Battery Sizing Method for Grid-Connected Microgrids (energies-281103)
191	40	Grey Wolf Optimization Based Optimum Energy Management and Battery Sizing Method for Grid-Connected Microgrids (energies-281103R1)
192	41	Grey Wolf Optimization Based Optimum Energy Management and Battery Sizing Method for Grid-Connected Microgrids (energies-281103R2)
193	42	A High-efficiency Charging Service System for Plug-in Electric Vehicles Considering the Capacity Constraint of the Distribution Network (energies-287350)
194	43	A review on battery charging and discharging control strategies: Application to renewable energy systems (energies-290400)
195	44	A review on battery charging and discharging control strategies: Application to renewable energy systems (energies-290400R1)
196	45	Optimized daily dispatching strategy of building integrated energy system considering V2G and room temperature control (energies-300080)
197	46	Optimized daily dispatching strategy of building integrated energy system considering V2G and room temperature control (energies-300080R1)
198	47	Research on the Power Demand Suppression Method Based on Charging Optimization and BESS Configuration for Fast-charging Stations in Beijing (energies-304699)
199	48	Jaya Based Optimization Method with High Dispatchable Distributed Generation for Residential Microgrid (energies-311424)
200	49	A Maintenance Cost Study of Transformers based on Markov Model Utilizing Frequency of Transition Approach (energies-321441)
201	50	A Maintenance Cost Study of Transformers based on Markov Model Utilizing Frequency of Transition Approach (energies-321441R1)
202	51	Novel Distributed Optimal Control of Battery Energy Storage System in Islanded Microgrid with Fast Frequency Recovery (energies-326767)
203	52	Novel Distributed Optimal Control of Battery Energy Storage System in Islanded Microgrid with Fast Frequency Recovery (energies-326767R1)
204	53	Ventilation system influence on hydrogen explosion hazards in industrial lead-acid battery rooms (energies-333961)
205	54	Ventilation system influence on hydrogen explosion hazards in industrial lead-acid battery rooms (energies-333961R1)
206	55	Research on the application of improved estimation of distribution algorithm in distributed generation (energies-342418)

207	56	Research on the application of improved estimation of distribution algorithm in distributed generation (energies-342418R1)			
208	57	Performance Analysis of Hybridization of Heuristic Techniques for Residential Load Scheduling (energies-353212)			
209	58	Performance Analysis of Hybridization of Heuristic Techniques for Residential Load Scheduling (energies-353212R1)			
210	59	Driven primary regulation for minimum power losses operation in islanded microgrids (energies-358410)			
211	60	Driven primary regulation for minimum power losses operation in islanded microgrids (energies-358410R1)			
212	61	Hybrid Imperialist Competitive-Grey Wolf Algorithm to solve Multiobjective Optimal Power Flow with Wind and Solar Units (energies-369488)			
213	62	A review of the energy performance and life-cycle assessment of building-integrated photovoltaic (BIPV) systems (energies-376294)			
214	63	A review of the energy performance and life-cycle assessment of building-integrated photovoltaic (BIPV) systems (energies-376294R1)			
215	64	Life cycle estimation of battery energy storage systems for primary frequency regulation (energies-385432)			
216	65	Life cycle estimation of battery energy storage systems for primary frequency regulation (energies-385432R1)			
217	66	Sharing energy data for research: A brief survey of consumer perspectives (energies-390046)			
218	67	Robust Tracking Control of a Three-phase Charger under Unbalanced Grid Condition (energies-393580)			
219	68	Robust Tracking Control of a Three-phase Charger under Unbalanced Grid Condition (energies-393580R1)			
220	69	Multiple DGs for reducing total power losses in radial distribution systems using hybrid WOA–SSA algorithm (energies-399340)			
221	70	Multiple DGs for reducing total power losses in radial distribution systems using hybrid WOA–SSA algorithm (energies-399340R1)			
222	71	A Frequency Estimation Method Based on a Revised 3-Level Discrete Fourier Transform and Difference Equations with a Tracking Delay Reduction Technique (energies-405446)			
223	72	Short term load forecasting using a novel deep learning framework (energies-299555)			
224	73	Short term load forecasting using a novel deep learning framework (energies-299555R1)			
225	74	Study on Impulse Breakdown Characteristics of Internal-Gap Lightning Protection Device Applied to 35kV Distribution Line (energies-318091)			
226	75	Study on Impulse Breakdown Characteristics of Internal-Gap Lightning Protection Device Applied to 35kV Distribution Line (energies-318091R1)			
227	76	A robust control of two-stage grid-tied PV systems employing Integral Sliding mode theory (energies-355172)			
228	77	Study of the intelligent behaviour of a maximum photovoltaic energy tracking fuzzy controller (energies-381536)			
229	78	Study of the intelligent behaviour of a maximum photovoltaic energy tracking fuzzy controller (energies-381536R1)			
230	79	Hybrid Short-Term Load Forecasting Scheme Using Random Forest and Multilayer Perceptron (energies-389852)			
231	80	Hybrid Short-Term Load Forecasting Scheme Using Random Forest and Multilayer Perceptron (energies-389852R1)			
232	81	Short-term Load Forecasting in Smart Grids: An Intelligent Modular Approach (energies-396387)			
233	82	Direct digital design of PIDF controllers with complex zeros for DC-DC buck converter (energies-403329)			
234	83	A Single-Phase Nine-Level Boost Inverter (energies-428315)			
235	84	A Single-Phase Nine-Level Boost Inverter (energies-428315R1)			
236	85	A Modified Self-Synchronized Synchronverter in Unbalanced Power Grid with Balanced Currents and Restrained Power Ripples (energies-448030)			
		Sustainability https://www.mdpi.com/journal/sustainability	**ISI**	**3**	**30**

237	1	Biomass as renewable energy: Worldwide Research Trends (sustainability-424134)			
238	2	Distribution Network Power Loss Analysis Considering Uncertainties in Distributed Generations (sustainability-447219)			
239	3	Biomass as renewable energy: Worldwide Research Trends (sustainability-424134R1)			
		4th International Conference on Computing and Informatics (ICOCI 2013), Kuching, Sarawak, Malaysia, 2013. (http://www.icoci.cms.net.my/icoci2013/home.asp)	**ISI**	**2**	**20**
240	1	Mixed Variable ANT Colony Optimization Technique fir Feature Subset Selection and Model Selection (PID25)			
241	2	Roulette-Tournament Selection for SHRIMP Diet Formulation Problem (PID91)			
		International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Brasov, Romania, 2014. (http://www.info-optim.ro/optim_2014.php)	**ISI**	**3**	**30**
242	1	Mathematical modeling of simple longitudinal unbalance of electric distribution lines (9816-000019)			
243	2	Characterization of Voltage Variations through the Application of Experimental Statistics (9830-000027)			
244	3	Analysis of the Direct Current Nonlinear Electrical Circuits by means of the Symbolic Computation and Genetic Algorithms (9845-000019)			
		7th International Conference and Exposition on Electrical Engineering (EPE 2012), Iasi, Romania, 2012 (http://www.epe.tuiasi.ro/2012/)	**ISI**	**18**	**180**
245	1	Self Adaptive Protection Systems			
246	2	Multicriteria Maintenance Planning for Disconnectors in Extra High Voltage Transmission Systems			
247	3	Operational Reliability of the Substations'Switching Equipment from FDEE Electrica Distributie Transilvania Sud			
248	4	Dynamic Modeling And Control of Grid Integrated Wind Generation System Using PMSG With MPPT Algorithm			
249	5	Meta-heuristic-based Methods for Multi-objective Non-conflicting Optimization of Distribution Networks Operation			
250	6	Load Flow Estimaton In Electrical Systems Using Artificial Neural Networks			
251	7	An Optimal Measurement Placement Method for Power System Harmonic State Estimation			
252	8	Monitoring System of Electric Energy Consumption to Users			
253	9	Reactive Power Sources Management in Public Repartition and Distribution Systems with the Purpose of Power Quality Improvment			
254	10	Aspects Regarding the Power and Energy Losses Evaluation from Public Electricity Repartition Systems			
255	11	Voltage Control in Distribution Networks considering area-wide Use of Regulated Distribution Transformers			
256	12	Evaluation of Short Circuit Currents in Multi-Terminal HVDC Systems			
257	13	Optimal Synthesis of a Fuzzy Controller with PSO for Local Reactive Power Support			
258	14	Analytical Identification of the Influence Coefficient of the Receivers Equivalent Number and Applications			
259	15	Lightning Protection Zones Estimation for a Power Station Using the Elliptic Model			
260	16	Fuzzy Numbers Based Algorithm for Interruptions Frequency Estimation on Distribution Smart Grids			
261	17	Optimal Tuning and Placement of Power System Stabilizer using Particle Swarm Optimization Algorithm			
262	18	Hydrogenerator Transients Simulation using DIgSILENT Software			
		Bucharest PowerTech Conference, Bucuresti, Romania, 2009. (http://ewh.ieee.org/conf/powertech/2009/index.html)	**ISI**	**5**	**50**
263	1	A New Meta-heuristic Method for Profit-Based Unit Commitment under Competitive Environment (ID 624)			
264	2	Application of Generalized Neuron in Electricity Price Forecasting (ID 654)			

265	3	Optimal Power Flow Solution Using the Penalty/Modified Barrier Method (ID 656)			
266	4	Ill-conditioned Optimal Power Flow Solutions and Performance of Non-Linear ProgrammingSolvers (ID 658)			
267	5	Multi-Objective Value-Based Reliability Transmission Planning Using Expected Interruption Cost Duet o Transmission Constraint (ID 659)			
		8th International Conference and Exposition on Electrical Engineering (EPE 2014), Iasi, Romania, 2014 (http://www.epe.tuiasi.ro/2012/)	**ISI**	**11**	**110**
268	1	Visual Inspection of Power Lines by UAS (ID 571)			
269	2	Invertor a energiei electrice din surse regenerabile (ID 540)			
270	3	Mathematical Model of Flexible Coupling Between AC (ID 588)			
271	4	Emission Prediction of a Thermal Power Plant (ID 581)			
272	5	Offline Battery Pack Model Optimization (ID 575)			
273	6	Study, Design and Industrial Implementation of Capacitive power factor controller for large load fluctuations in steel industry (ID 532)			
274	7	Modeling the Statistical Behavior of Solar Radiation (ID 611)			
275	8	Management and Energy Efficiency study case concerning CHP implementation (ID 696)			
276	9	Optimization of a Combined Cool, Heat and Power Plant based on genetic algorithms and specialized software (ID 704)			
277	10	Efficient Distribution Through the Medium Voltage Network belonging to Cluj-centre electrical power station (ID 787)			
278	11	Domain Specific Languages in Power Systems Engineering (ID 823)			
		Science and Information Conference, London, UK, 2013 (http://saiconference.com/Conferences/SAIConference2013)(IEEE Explore)	**BDI**	**3**	**18**
279	1	An optimal Implementation of the Iterative Deepening Algorithm A* (ID 11)			
280	2	Design of Mathematical Model For Prediction of Heart Rate & Deficience of Nitric Oxide in blood Vessels (ID 68)			
281	3	Clustering Algorithm Suitable for Data Streaming (ID 152)			
		Science and Information Conference, London, UK, 2014 (http://saiconference.com/Conferences/SAIConference 2014)	**ISI**	**5**	**50**
282	1	Predicting bus travel time dynamically : using stochastic process (ID 1)			
283	2	Control of single axis magnetic levitation system using fuzzy logic control (ID 2)			
284	3	Laguerre Kernels –Based SVM for Image Classification (ID 14)			
285	4	The Problem of Computing k-Disjoint Maximal Cliques Covering a Maximum Number of Vertices for Weakly Triangulated Graph (ID 200)			
286	5	Fuzzy Scheduling on Parallel Machines Involving Weighted Flow time and Total Tardiness (ID 213)			
		International Conference Automatic Control, Modelling & Simulation (ACMOS '13), Brasov, Romania, 2013 (http://www.wseas.org/cms.action?id=3672)	**BDI**	**1**	**6**
287	1	Real-time Assessment and Control for Transient Stability of Multimachine Power System with TCSC using Kuramoto Model (70101-286)			
		Knowledge Management International Conference, Langkawi, Malaysia, 2014. (http://www.kmice.cms.net.my/kmice2014/intro.asp)	**ISI**	**3**	**30**
288	1	Heuristic Evaluation of a Learning Management System (ID PID29)			
289	2	Does Personality Influence Web-based Learning Performance of Novice Programmers? A Preliminary Study (ID PID66)			
290	3	A Propose Study of Developing Building Information Modelling (BIM) Framework in the Malaysian Construction Industry (ID PID267)			

		2nd International Conference on Computation Theory and Information Technology, Taiwan, China, 2013, (Compendex) (http://www.wikicfp.com/cfp/servlet/event.showcfp?eventid=24932&copyownerid=20632)	**BDI**	**16**	**96**
291	1	Based on Intra-Body Communication Family Medical Monitoring System Construction (ID 34)			
292	2	The Research of the Profit Distribution Strategy Model in the Three-level Supply Chain Based on the Cooperative Game Theory (ID 35)			
293	3	Research on Fourth-party Logistics Optimization Decision-making Based on Graph Model with Multi-dimensions (ID 36)			
294	4	A method of the data mining (ID 39)			
295	5	The Exact Bounds of Randomized Widths for Generalized Besov Classes (ID 41)			
296	6	Truncation Error for Multi-dimensional Whittaker-Shannon Sampling Expansion with Mesureed Values (ID 42)			
297	7	Research of the Fuzzy Quantum Genetic Algorithm for Solving Global Optimization Problem (ID 43)			
298	8	Emergency Management Organizational Structure of China and Its Information Transmission Ability (ID 44)			
299	9	Robust Synchronization of Uncertain Chaotic Systems with Disturbance (ID 45)			
300	10	A novel Model for Evaluation of Online Public Opinion based on Fuzzy Cellular Automata Rules in Directed World Networks (ID 46)			
301	11	Research on Semantic Query Expansion Using Domain Ontology Contructed by Thesaurus and Thematic Words for High-speed Railway Knowledege (ID 47)			
302	12	Intelligent Control of Air Compressor Production Process (ID 48)			
303	13	Convergence Rate of Least Square Regressions with Some Mercer Kernels (ID 49)			
304	14	Research on Concept Semantic Similarity Computation for Domain Ontology (ID 50)			
305	15	Analysis of Security Mechanisms based on the CDMA System Interface (ID 52)			
306	16	Real-Time Image Rendering Based on Depth Map (ID 53)			
		2017 The International Conference on Artificial Intelligent and Computer Engineering, Suzhou, China (ITM Web of Conferences – EBSCO) (http://www.aice2017.org/)	**BDI**	**8**	**48**
307	1	Design and implementation of energy saving brake system (ID A150)			
308	2	Double HEVC Compression Detection with Different Bitrates Based on Co-occurrence Matrix of PU Types and DCT Coefficients (ID A218)			
309	3	Pattern Identification of Subthalamic Local Field Potentials in Parkinson's Disease (ID A219)			
310	4	Failure Analysis and Evaluation of Reinforced Computer Equipment (IS A220)			
311	5	Design and Achievement of User Interface Automation Testing of Linux Based on Element Tree of DogTail (ID A221)			
312	6	On Construction of Good Quaternary Additive Codes (ID A224)			
313	7	Automated Brunnstrom Assessment for Home Rehabilitation Based on GRNN Model (ID A225)			
314	8	On the Construction of LCD Codes over F5 (ID A227)			
		2nd Annual International Conference on Artificial Intelligence and Computer Engineering [AICE2018], May 18-20, 2018 in Xi'an, Shaanxi, China (http://www.aice2018.net/)	BDI	**5**	**30**
315	1	An application of stochastic time strength RBF neural network to predicting spot prices of crude oil (A98)			
316	2	Design and implementation of energy saving brake system (A150)			
317	3	Research on XUL-SQL in Enterprise Information Platform (A151)			

318	4	A negative DC voltage generator for sub-micron process circuits (A152)			
319	5	An 14-bit ultra low power ADCs for sensor measurement (A153)			
		WSEAS Transactions on Power Systems (SCOPUS) (http://www.wseas.com/journal/power-systems.html)	**BDI**	**97**	**582**
320	1	An adaptive network based fuzzy inference system with hybrid learning algorithm for fault location in power distribution networks (5816-504)			
321	2	Optimal Active and Reactive Power Control of Wind Turbine Driven DFIG using TLBO Algorithm and Artificial Neural Networks (5816-502)			
322	3	Hybrid BFOA-PSO Approach for Optimal Design of SSSC Based Controller (5716-136)			
323	4	Poor power quality issues need smart grid –Bangladesh (5816-378)			
324	5	Adaptive Load Shedding for Industrial Cogeneration System (5716-137)			
325	6	Particle Swarm Optimization Based Tuning of PI Controller for Harmonic Compensation of Non-linear Dynamic Loads (5816-437)			
326	7	Optimised Controllers for Excitation system of Conventional Power System and Wind Turbines to mitigate small signal and transient stability (5816-423)			
327	8	Model Predictive Control of Nonlinear Interconnected Hydro-Thermal System Load Frequency Control Based Bat Inspired Algorithm (5816-440)			
328	9	An Exact Method to Compute Time Delay Margin for Stability of Time-Delayed Generator Excitation Control System (5816-441)			
329	10	Regulation of the DC Bus Voltage High Three Phase Active Power Filter by PI and Fuzzy Logic Controller For Harmonic Compensation And Power Factor Correction (5816-434)			
330	11	New Particle Swarm Neural Networks Model Based Long Term Electrical Load Forecasting in Slovakia (5816-394)			
331	12	STATCOM or SSSC for Power System Stabilization? (5816-448)			
332	13	Micro Grid System Based Renewable Energy Resources for Power Quality Improvement (5816-392)			
333	14	Hybrid PSO-ANN Application for Improved Accuracy of Short Term Load Forecasting (5716-204)			
334	15	DC Offset Removal of Thyristor Switched Series Capacitor and in a Novel and Simple Method (5716-235)			
335	16	Particle Swarm Optimization Based Tuning of PI Controller for Harmonic Compensation of Non-linear Dynamic Loads (5816-390)			
336	17	Optimal Location of Thyristor Controlled Series Capacitor for reduction of Transmission Line losses using BAT Search Algorithm (5716-158)			
337	18	Dual Mode Two-Layer Fuzzy Logic controller for Load-Frequency Control in a Restructured Power System with Super Capacitor Energy Storage Units (5716-236)			
338	19	Adaptive Neuro Fuzzy Based Control Strategy for STATCOM in a DG Integrated Industrial System (5716-253)			
339	20	Performance Analysis of Artificial Neural Network Controller Based Shunt Hybrid Active Power Filter (5716-254)			
340	21	SOC Estimation for Li-ion Battery Based on UKF Algorithm Optimized by Artificial Neural Network (5816-452)			
341	22	Extended Optimal PMU Placement Problem for Voltage Stability Assessment (5816-371)			
342	23	Power System Stability Enhancement via New Coordinated Design of PSSs and SVC (5716-228)			
343	24	On GA Optimized Automatic Generation Control with Superconducting Magnetic Energy Storage (5816-372)			
344	25	Influx of random variables in the Unit Commitment problem (5716-165)			
345	26	Optimal Coordination of Directional Over-currant Relay in Distribution System with Multi-TCSC (5816-454)			
346	27	Positive and negative factors in international electricity integration (5816-414)			
347	28	Sustainable Development Microgrid Control Protection System (5716-212)			
348	29	Day-Ahead Electricity Price Forecasting using Weighted Least Square Technique (5816-415)			
349	30	Evaluating the Reliability worth Indices of Electrical Medium Voltage Network: Case Study (5816-456)			
350	31	Hybrid Distributed State Estimation Algorithm with Synchronized Phasor Measurements (5716-265)			

351	32	On The Analysis of Combined Heating and Power Plant: A Case Study (5716-362)
352	33	An Innovative Power System Simulator Using the Graphical Programming Environment LabVIEW (5716-363)
353	34	Wind penetration effects on power system with FACTS insertion (5716-232)
354	35	An Optimal PV System Fed Water Pump Three Phase Induction Motor without Storage Systems Based on TLBO Technique and ANN (5816-459)
355	36	A Novel Analytical Study on Voltage Instability Mitigation Using Multiple Severity Functions by Optimal Placement of SVC in N-2 Contingency Analysis Using Gravitational Search Algorithm (5716-216)
356	37	Development of a Visual Basic application for condition monitoring of transformer oil (5716-359)
357	38	Optimum Coordination of Directional Overcurrent Relays Using Advanced Teaching Learning Based Optimization Algorithm (5716-365)
358	39	Voltage Stability Improvement by Locating Wind Turbine (5716-240)
359	40	Voltage Stability Improvement by Locating Wind Turbine (5716-241 - 5716-240R1)
360	41	Delay-Dependent stability analysis of Multi-Area Load Frequency Control Considering Communication Delays (5716-367)
361	42	Voltage Stability Assessment for Load-shedding Distribution (5816-464)
362	43	A New Hybrid Algorithm based on Artificial Immune System and Least Square Support Vector Machine for Voltage Stability Prediction (5716-248)
363	44	Spectacular Simulation Review - Analysis Of different wind turbine companies by Wei bull Analysis for powers (5716-354)
364	45	Demand Balancing Scheduler Implemented in Power Management to Mitigate Peak Load Consumption (5716-249)
365	46	A Hybrid Optimization Algorithm (IA-PSO) for Optimal Coordination of Directional Overcurrent Relays in Meshed Power Systems (5716-356)
366	47	Study of Dissolved Gas Analysis for Pre-Determination of Faults in Transformers (5816-474)
367	48	Load frequency control in two area multi units Interconnected Power System using Multi objective Genetic Algorithm (5716-251)
368	49	Performance Evaluation of Evolutionary Programming and Differential Evolution Approaches for Optimal Power Dispatch in Pool Electricity Market (5716-357)
369	50	Artificial Bee Colony Algorithm Based Maximum Power Point Tracking in Photovoltaic System (5716-274)
370	51	Dynamic Stability and Analysis of SMIB system with FLC Based PSS including Load Damping Parameter Sensitivity (5716-358)
371	52	Assessment Study on Speed Control of DC Series Motor Fed by Photovoltaic System via Bacterial Foraging (5716-148)
372	53	A New Control strategy to Enhance LVRT for Doubly Fed Induction Generator (5716-280)
373	54	Congestion Management in Deregulated Power System using FACTS Device (5716-150)
374	55	Effective Cable Sizing Procedure Model for Building Electrical Services (5716-316)
375	56	Probabilistic Approach Based Optimal Placement of Phasor Measurement Units via the Estimation of Dynamic Vulnerability Assessment (5716-313)
376	57	A Novel Tuning Technique of Multi-Band Power System Stabilizer Using Expectation And Maximization Algorithm for Multi-Machine System (5816-379)
377	58	Design of High Speed 32 bit AAU with OD Technique (5816-381)
378	59	Controller Design for stabilization of Time delayed Load Frequency Control based on Continuous Pole Placement method (5716-317)
379	60	Fault Identification in Power Distribution System Using Combined Discrete Wavelet Transform and Fuzzy Logic (5816-383)
380	61	Dynamic Response Analysis of Power System Operating with PSS for Small Signal Stability Improvement (5716-319)
381	62	Analysis and control of the indirect matrix converter fed permanent magnet synchronous motor drive system using one current sensor (5816-386)
382	63	Speed Control of Induction Motor Supplied by Wind Turbine Using ICA (5716-300)
383	64	Solving Multi Objective ORPD problem using AIS Based Clonal Selection Algorithm with FACTS Devices (5816-486)

384	65	Bee Algorithm Optimization for Load Management Based On Load Shifting in the Textile Industry (5716-322)
385	66	Tellegen Theorem based Load Flow Solution of Radial Distribution Network (Main feeder) (5816-517)
386	67	Analysis of Technical Efficiency of India's State Power Distribution Utilities and its Influence on Profitability (5816-492)
387	68	Speed Control of Induction Motor Supplied by Wind Turbine Using Imperialist Competitive Algorithm (5716-325)
388	69	Optimized Fuzzy and Neuro-fuzzy Controller based MPPT using MOHGA applied for a Solar Photovoltaic Module (5816-515)
389	70	Firefly Algorithm Based Speed Control of DC Series Motor Powered by Photovoltaic System (5716-326)
390	71	Detection and Classification of Faults in High Voltage Transmission Line Using Artificial Neural Network (5816-493)
391	72	BAT Search Algorithm for Power System Stabilizers Design in Multimachine System (5716-327)
392	73	Design and Optimization of Axial Flux Brushless DC Motor Dedicated to Electric Traction (5716-282)
393	74	An Approach Towards Real Time Short Term Load Forecasting Using Grey Index Models For Smart Grid Framework (5716-370)
394	75	Online tuning of power system stabilizers using fuzzy logic network with Fuzzy C-Means clustering (5716-284)
395	76	Hybrid method for high precision frequency estimation in presence of decaying dc and harmonic distortion (5716-336)
396	77	Hybrid Neural Networks for Multi Step Ahead Wind Power Prediction (5716-287)
397	78	MPPT Control Design of PV Generator Supplied DC Motor-Pump System based on ABC Algorithm (5716-259)
398	79	Evaluation and improvement of Voltage stability in a heavily loaded power system, Albanian power system case study (5716-184)
399	80	Performance Analysis of Power System Stabilizer Based on Participation Factor (5716-185)
400	81	Modeling and State Feedback Controller Design of Tubular Linear Permanent Magnet Synchronous Motor (5816-521)
401	82	New Fault Location Method for STATCOM Connected Transmission Lines (5716-294)
402	83	Voltage Instability and Possible Countermeasures (5716-222)
403	84	Comparative Study of MPPT Nonlinear Controller, Using Boost Converter for PV Modules (5816-545)
404	85	Data Warehouse Applied to SCADA Historical Data in Electrical Power Systems (5916-554)
405	86	Optimization of Model Structure of Induction Motor Control System (5916-555)
406	87	A Cuckoo Search Algorithm Applied to the Electric Grid Interdiction Problem (5916-556)
407	88	A Dynamic Approach to Linear Statistical Electrical Energy losses Analyses (5916-557)
408	89	Optimal Location and Sizing of Capacitors in Radial Distribution Networks Using an Exact MINLP Model for Operating Costs Minimization (5916-558)
409	90	Steady State Best Location of Unified Power Flow Controller FACTS for Voltage Regulation and Power Flow Control in Presence of Nonlinear Load (5916-559)
410	91	An improved redundant observability model for optimal placement of PMUs with different channel capacities (5916-565)
411	92	Power Flow Analysis for IEEE 30 Bus Distribution System (5916-585)
412	93	Optimization of a Growing Electrical Power System (5903-702)
413	94	Risk Management of Overhead Electric Power Lines (5916-586)
414	95	Load Frequency Control of Three Area System using FOPID Controller (5916-591)
415	96	Parallel Operation Of Two Single-Phase Rectifiers With Three-Phase Inverter By Implementing Generalized SVPWM (5916-593)
416	97	Generation and Demand Scheduling in a Micro-grid with Battery-based Storage Systems, Hybrid Renewable Systems and Electric Vehicle Aggregators (5116-614)

		WSEAS Transactions on Systems and Control Journal (SCOPUS) (http://www.wseas.com/journal/systems-control.html)	**BDI**	**2**	**12**
417	1	New Initiation Method Based on Load Proportion for Economic Load Dispatch (5803-494V)			
418	2	Anti Windup PI Regulator Based Modified Power Balance Theory for SAPF Under Unbalanced Grid Voltage Unbalance Non Linear Loads (5103-818)			
		WSEAS Transactions on Circuits and Systems http://wseas.org/cms.action?id=2861	**BDI**	**2**	**12**
419	1	Cyber Security Measures In Companies (5903-712)			
420	2	Nonlinear Observer-Based Control for Three phase Grid Connected Photovoltaic System (5103-789)			
		11th International Conference on Dynamical Systems and Control (CONTROL '16), Bern, Switzerland, 2016 (11th International Conference on Dynamical Systems and Control (CONTROL '16) (http://wseas.org/cms.action?id=13233)	**BDI**	**5**	**30**
421	1	Optimization of Distribution Network Based on Index System Sensitivity Analysis of Multi-dimensional (74106-124)			
422	2	Risk Assessment Model and Method of Urban Distribution Network Considering Real-time and Potential Factors (74106-127)			
423	3	Establishment and Optimization of Distribution Network Operation Mode Considering Operation and Grid Risk (74106-130)			
424	4	A Predictive Current Control Strategy for a Naturally-Commutated Converter Using a Finite-State Machine Model (74106-106)			
425	5	Active Power Filter for Variable-Speed Wind Turbine PMSG Interfaced to Grid and Non-linear Load via three Phase Matrix Converter (74106-151)			
		2nd International Conference on Intelligent Control, Modelling and Systems Engineering (ICMS '14), Cambridge, MA, USA, 2014 (http://naun.org/cms.action?id=6721)	**BDI**	**2**	**12**
426	1	Proposal of Circuit Breaker Type Disconnector for Surge Protective Device (71206-139)			
427	2	Correlations between Magnetic and Vibration Measurements on Hydro Generators (71206-169)			
		15th International Conference on Robotics, Control and Manufacturing Technology (ROCOM '15), 2015, Kuala Lumpur, Malaysia (http://www.wseas.org/cms.action?id=8763)	**BDI**	**1**	**6**
428	1	Robust Digital Redesign of Continuous PID Controller for Power system Using Plant-Input-Mapping (72303-148)			
		14th International Conference on Electric Power Systems, High Voltages, Electric Machines (POWER '14), Lisbon, Portugal (http://www.wseas.org/cms.action?id=7853)	**BDI**	**6**	**36**
429	1	A Robust Genetic Algorithm for Sizing and Placement of Distributed Generation, Capacitors and Automatic Reclosers in Radial Distribution Networks (71705-142)			
430	2	The new method of investigation of the problem of synchronization electrical machine with power network (71705-121)			
431	3	ANN based approach to the structural health monitoring of a traction equipment (71705-139)			
432	4	Novel Approach to Power System Stabilizer Tuning Using Sparls Algorithm (71705-112)			
433	5	Online tuning of power system stabilizers using fuzzy logic network with Fuzzy C-Means clustering (71705-106)			
434	6	Short-term Forecast for Photovoltaic Power Generation with Correlation of Solar Power Irradiance of Multi Points (71705-115)			
		13th International Conference on Electric Power Systems, High Voltages, Electric Machines (POWER'13), Chania, Crete Island, Greece 2013 (http://wseas.org/cms.action?id=4632)	**BDI**	**1**	**6**
435	1	Flue gases content measurement after electrostatic precipitators (70413-124)			

		4th International Conference on CIRCUITS, SYSTEMS, COMMUNICATIONS, COMPUTERS and APPLICATIONS (CSCCA '15), Kuala Lumpur, Malaysia, 2015 (http://naun.org/cms.action?id=8855)	**BDI**	**1**	**6**
436	1	Application of Improved Particle Swarm Optimization for Optimal Short-term Thermal Unit Commitment with Emissions Constraints (72308-124)			
		1st International Conference on Sustainable Development, Sustainable Chemical Industry, Pollution, Hazards and Environment (SDSCIPHE '12), Iasi, Romania, 2012 (http://www.wseas.us/e-library/conferences/2012/Iasi/BIOECO/BIOECO-00.pdf)	**BDI**	**1**	**6**
437	1	Aspects of heating the busbars systems that supply consumers of slag and ash disposal from the flow diagram of a group technology power of 330 MW (67909-052			
		The 2017 International Conference on Computing Intelligence and Information System, Nanjing, China, (www.ciis2017.org)	**BDI**	**1**	**6**
438	1	Research on Access Control in Cloud Computing Environment (CIIS1095)			
		COMPEL - The international journal for computation and mathematics in electrical and electronic engineering (http://www.emeraldinsight.com/journal/compel)	**ISI**	**6**	**60**
439	1	Research of Short-Term Load Forecasting by WT-QDE-LSSVM (COMPEL-08-2015-0269.R1			
440	2	Using ANFIS to Model Dynamic Behavior of PEMFC (COMPEL-12-2015-0452)			
441	3	A Novel Approach to Solve Transient Stability-Constrained Optimal Power Flow Problem (COMPEL-08-2016-0365)			
442	4	Monte Carlo Increased-Radius Floating Random Walk Solution for Potential Problems (COMPEL -11-2016-0507)			
443	5	Multi-Objective ant lion optimization algorithm to solve large-scale multi-objective optimal reactive power dispatch problem (COMPEL-05-2018-0208)			
444	6	Multi-Objective ant lion optimization algorithm to solve large-scale multi-objective optimal reactive power dispatch problem (COMPEL-05-2018-0208R1)			
		2017 International Conference on Computer, Communications and Electronics (Comptelix), Jaipur, India (IEEE Xplore) (http://irisworld.org/wp/international-conference/comptelix-2017)	**BDI**	**3**	**18**
445	1	Removel of Eye Blink Artefacts from EEG Signal using Block based Data Normalized LMS Adaptive Filter			
446	2	Design a Microstrip Patch Antenna using Defected Ground Structure for Milimeter Wawe			
447	3	A Novel Compact Polarization Independent Triple Band Reject Frequency Selective Surface for the Security of Wireless Communication			
		8th International Conference on Electronics, Computers and Artificial Intelligence, Ploiesti, Romania, 2016 (http://www.ecai.ro)	**ISI**	**4**	**40**
448	1	Predictive Methods to Increase Energy Efficieny in Processes of Wastewater Treatment (ID 8)			
449	2	Prosumers' Renewable Small-Size Generation Forecasting Analyses With ARIMA Models (ID 19)			
450	3	Energy Efficiency Aspects of Urban Waste Recovery (ID 22)			
451	4	Internal Model Control for Wastewater pH Neutralization Process (ID 72)			
		9th International Conference on Electronics, Computers and Artificial Intelligence, Ploiesti, Romania, 2017 (http://www.ecai.ro)	**ISI**	**1**	**10**
452	1	Case Studies of Energy Efficiency in Wastewater Treatment Plants (ID 95)			
		10th International Conference on Electronics, Computers and Artificial Intelligence, Ploiesti, Romania, 2018 (http://www.ecai.ro)	BDI	4	24

453	1	Artificial Intelligence Computational Basic Models and Analysis for Power Delivery Safety and Efficiency Evaluation (ID 65)			
454	2	Mobile application for a smart city (ID 70)			
455	3	Improving the quality of web applications through targeted usability enhancements (ID 89)			
456	4	Intelligent Monitoring System To Combat Water Stress In Plant Crops (ID 130)			
		The Second International Conference on Energy Engineering and Environmental Protection, Sanya, China, 2017 (Compendex) (http://www.iceeep.org/)	**BDI**	**2**	**12**
457	1	Active Distribution Network Planning Considering Linearized System Loss (EEEP15969)			
458	2	Study on Reasonable Abandonment Rate of Large Scale Renewable Energy (EEEP18835)			
		9th International Conference and Exposition on Electrical Engineering (EPE 2016), Iasi, Romania, 2016. (http://www.epe.tuiasi.ro/2016)	**ISI**	**16**	**160**
459	1	Limits of mathematical model used in wind turbine descriptions (ID 1070)			
460	2	The study of possibility to use the current transformer for power conversion (ID 977)			
461	3	On a demand response pilot demonstration in the technical university of Cluj-Napoca (ID 1001)			
462	4	A Hibrid GA-PSO Algorithm for Static VAR Compensation (ID 1157)			
463	5	A Solution to Obtain Precise Fault Location Usig a two-end data algorithm (ID 1295)			
464	6	Reactive Power Compensation in Distribution Networks using the bat algorithm (ID 1319)			
465	7	The impact of harmonic current flow on additional power losses in low voltage distribution networks (ID1337)			
466	8	Some Considerations About Overvoltages During and After (ID1372)			
467	9	The Problems of Dissolved in Oil Gases Analysis Results' Interpretation in Information Analytical Systems (ID1517)			
468	10	Voltage Regulation in Distribution Networks with Distributed Generation – A Review (ID 1397)			
469	11	Impact of Photovoltaic Power Plants on Power Systems Losses (ID1664)			
470	12	The Study of Dynamic Processes in Power Grids (ID1834)			
471	13	On a demand response pilot demonstration in the technical university of Cluj-Napoca (ID 1001R1)			
472	14	The Influence of the Tariff Charged by Electricity Suppliers on the Optimal Running of a Trigeneration Plant (ID2086)			
473	15	Assessment on Reliability of Wind Turbine Protection (ID1224)			
474	16	Bayesian Networks Utilization for Reliability Evaluation of Power Systems (ID950)			
		10th International Conference and Exposition on Electrical Engineering (EPE 2018), Iasi, Romania, 2018 http://www.epe.tuiasi.ro/2018/	**ISI**	**6**	**60**
475	1	Management of the Electrical Energy Distribution Network (ID 2456)			
476	2	A multi-objective approach to improve hydropower dispatching (ID 2480)			
477	3	Solution to improve the quality of electricity in low voltage networks (ID 2724)			
478	4	Optimal Demand Response Allocation in LV Distribution Networks Using the PSO Algorithm (ID 2776)			
479	5	Voltage Stability Assessment based on a Load Flow Sensitivity Method (ID 2814)			
480	6	A PSO Algorithm for Phase Load Balancing in Low Voltage Distribution Networks (ID 3201)			
		The 4th International Conference on Fuzzy Systems and Data Mining, Bangkok, Thailanda, 2018 (http://www.fsdmconf.org/2018/)	**BDI**	**1**	**6**
481	1	Living Safety for Diversity in the Era of IoT and Artificial Intelligence (FSDM2602)			

		The 2017 International Conference on Environmental Science and Sustainable Energy, Suzhou, China (Compendex) (http://www.esse2017.org)	**BDI**	**1**	**6**
482	1	Research on the Performance Evaluation of Coal Listed Companies in China under the Economic Downturn (ESSE 146)			
		Future Technologies Conference, San Francisco, SUA, 2016 (http://saiconference.com/Conferences/FTC2016)	**ISI**	**4**	**40**
483	1	Generalize JULIA Algorithm in Construction Management Optimization (ID 44)			
484	2	Cognitive Artificial Intelligence Method for Measuring Transformer Performance (ID 172)			
485	3	Imparting Data Knowledge in Discrete Data Volumes using Crowed Agent Approach for Multi-Persepective and Visualized Big Data (ID 209)			
486	4	A Goal Directed Proof Format in First-Order Logic. An Alternative Tool for Automatic Reasoning (ID 213)			
		Future Technologies Conference, Vancouver, BC, Canada, 2017 (http://saiconference.com/Conferences/FTC2017) (IEEE Xplore)	**BDI**	**4**	**24**
487	1	Gray Wolf Optimization based Clustering Algorithm for Vehicular Ad-Hoc Networks (ID 144)			
488	2	Evolution in Groups: A Deeper Look at Synaptic Cluster Driven Evolution of Deep Neural Networks (ID 220)			
489	3	Exploating Chaos for Fun and Profit (ID 260)			
490	4	Fault Detection of Switches in Multilevel Inverter Using Wavelet and Neural Network (ID 436)			
		Future Technologies Conference (FTC) 2018, Vancouver, Canada, 2018, https://saiconference.com/Conferences/FTC2018	**BDI**	**6**	**36**
491	1	A systematic review of time series based spam identification techniques (ID 7)			
492	2	A path to AI (ID 14)			
493	3	Maximizing Deviation Based Grey Relational Analysis Method for Solving Neutrosophic MCGDM Problems with Insufficient Weight Information (ID 16)			
494	4	Improving Functional Characterization and Clustering of Genes via Biomedical Literature Mining (ID 345)			
495	5	Development Of Partial Shading Detection Algorithm In Real Time PV Panels (ID 361)			
496	6	Fuzzy Logic Approach to predicting unsafe worksites: Exploiting Injuries frequency (ID 434)			
		The 2nd International Conference on Electronic and Information Technology, 2017, Zhuhai, China (Compendex) (http://www.iceit2017.org/)	**BDI**	**1**	**6**
497	1	Real Time Monitoring and Analysis of Operation Status Based on Stream Computing and Memory Computing Technology (ID 93)			
		IEEE Transactions on Smart Grid (http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=5165411)	**ISI**	**1**	**10**
498	1	Fast Harmonic Phasor Measurement Method for Smart Grid Applications (TSG-01175-2015.R1)			
		International Journal of Advanced Research in Artificial Intelligence, (Index Copernicus) (http://thesai.org/Publications/IJARAI)	**BDI**	**29**	**174**
499	1	Laying Cards Recognition Using Color, Text and Template Matching			
500	2	Multi class classification of Affine and Blurred images using Back Propagation Neural Network			
501	3	Detection and Prevention of Passive Attacks in Network Security			
502	4	A More Intelligent Literature Search - Shoulders of Giants			
503	5	Rice Crop Quality Evaluation Method through Regressive Analysis between Nitrogen			
504	6	Content and Near Infrared Reflectance of Rice Leaves Measured from Near Field			

505	7	Sea Ice Concentration Estimation Method with Satellite Based Visible to Near Infrared			
506	8	Radiometer Data Based on Category Decomposition			
507	9	Sensitivity Analysis on Sea Surface Temperature Estimation Methods with Thermal			
508	10	Infrared Radiometer Data through Simulations			
509	11	Image Clustering Method Based on Self Organization Mapping: SOM Derived Density			
510	12	Maps and Its Application for Landsat Thematic Mapper Image Clustering			
511	13	Remote Sensing Satellite Image Database System Allowing Image Portion Retrievals			
512	14	Utilizing Principal Component Which Consists Spectral and Spatial Features Extracted from Imagery Data			
513	15	Mashup Based Content Search Engine for Mobile Devices			
514	16	The preliminary results of a force feedback control for Sensorized Medical Robotics			
515	17	Performance Analysis and Evaluation of Different Data Mining Algorithms used for Cancer Classification			
516	18	Path Based Mapping Technique for Robots			
517	19	A New Optimization Algorithm For Combinatorial Problems			
518	20	Gesture Controlled Robot using Image Processing			
519	21	A Single-View Based Height Estimation of Object			
520	22	Face and Human Detection Using Gradient Pattern with Nearest Neighbor Technique			
521	23	Semantic Image Retrieval: An Ontology based Approach			
522	24	Esential Spectral based Parameter: MFCC			
523	25	Space and Geographical Operational Robot			
524	26	An improvement to ANNs method approach for solving general nonlinear system of polynomial equations			
525	27	Developing Instructional Material for Sepak Takraw Playing Technique Course			
526	28	Completed with Smart Audiovisual			
527	29	Software Defect Prediction Based on Fuzzy ARTMAP Neural Network Technique			
		International Journal of Industrial Engineering: Theory, Applications and Practice (SCOPUS) (http://journals.sfu.ca/ijietap/index.php/ijie)	**BDI**	**4**	**24**
528	1	Two-Stage Production Planning Model Using Integrated Mathematical Modelling and Mathematical Programming (3425-9903-2-RV)			
529	2	Optimization Simulation of the Lpcvd Equipment Intergrated Production System in the Amorphous Silicon Thin-Film Solar Cell Production Line-A Case Study (2504-7614-1-RV)			
530	3	A Simulation Case Study on Supply Chain Management of a Construction Firm Adopting Cloud Computing and RFID (2178-6723-1-RV)			
531	4	Investigation on the Comprehensive Control Method of High-Order Local Shape Defects in Cold Rolled Wide Strip (2109-6553-2-RV)			
		SAI Intelligent Systems Conference, Londra, UK, 2016 (IEEE Xplore) (http://saiconference.com/Conferences/IntelliSys2016)	**BDI**	**7**	**42**
532	1	A network intrusion detection framework based on Bayesian network using Wrapper approach (ID 19)			
533	2	Simulated Anneling and Cloud Computing Applied to Forest Planning (ID 54)			
534	3	Simulated Anneling Applied to Target-forest Patching (ID 73)			
535	4	Experimental Study of Surfaces for the meovement of Kilobots in Swarm Networks (ID 80)			
536	5	Hibrid Intelligence Nano-enriched Sensing and Management System for Efficient Water-Quality Monitoring (ID 193)			
537	6	Proactive Business Intelligence to Give Best Customer Experience to Valued Social Networks in Telecoms (ID 240)			
538	7	Mathematical Regerssion Modeling for Smart Environmetal Weather Forecasting (ID 340)			

		SAI Intelligent Systems Conference, Londra, UK, 2017 (IEEE Xplore) (http://www.saiconference.com/Conferences/IntelliSys2017)	**BDI**	**8**	**48**
539	1	Neuro-Fuzzy Based Fault Diagnostic in a Power Distribution Network (ID 1)			
540	2	Making Smart and Accesible Cities by Modeling the Exploit Data using Fuzzy Logic (ID 7)			
541	3	Estabilishing a New Algorithm to Detecting Resources in Sensor Networks (ID 12)			
542	4	LUCID: Author Name Disambiguation using Graph Structural Clustering			
543	5	Bio-Inspired meta-learing for active exploration during non-stationary multi-armed bandit tasks (ID 192)			
544	6	A hibrid moth-flame optimization and extreme learning machine for stook market prediction (ID 240)			
545	7	EOD-AMLP: A framework to predict Diabetic using Outlier Detection and Automatic Multi Layer Perceptorn (ID 277)			
546	8	Head Pogo-free Eye Gaze Prediction using Multi-coli Sparce Dictionary Learning (ID 368)			
		Engineering Science and Technology, an International Journal (SCOPUS) (https://www.journals.elsevier.com/engineering-science-and-technology-an-international-journal)	**BDI**	**1**	**6**
547	1	Hybrid fuzzy charged system search algorithm based state estimation in distribution networks (JESTCH_2017_111)			
		Network and Communication Technologies (index Copernicus) (http://www.ccsenet.org/journal/index.php/nct/about/editorialPolicies#custom-0)	**BDI**	**8**	**48**
548	1	Study on the Simulation of the APT Rough Tracing System Based on the Predictive Control Technology			
549	2	Diagnostic of Fault-Tolerant System S7-400H			
550	3	Open Wireless System Cloud. An Architecture for Future Wireless Communications System			
551	4	User Centric RFID Enabled Fridge			
552	5	Influence of Oxide Layer Thickness on the One-layer and Two-layer Oxide-Confined VCSEL Performance			
553	6	Data Communication Between Programmable Logic Controllers in the Industrial Distribution Aplications			
554	7	Engineering A Virtual Laboratory For Digital Collaboration			
555	8	Redesigning Academic Website for Better Visibility and Footprint: A Case of the Federal University of Petroleum Resources Effurun Website (NCT_72775)			
		International Conference on Optimization Of Electrical And Electronic Equipment (OPTIM) & Aegean Conference On Electrical Machines And Power Electronics (ACEMP), Brasov, Romania, 2017 IEEE Xplore (http://www.info-optim.ro/optim_2017.php)	**BDI**	**1**	**6**
556	1	Cyber Security for Critical Infrastructure SCADA Systems (TMP-8700-000019)			
		Science and Information Conference, London, UK, 2015 (http://saiconference.com/Conferences/SAIConference2015)	**ISI**	**7**	**70**
557	1	Chameleon Eye Motion Thruster For Missile System With Genetic Ontology Controller And Uncommon Transmission Antenna (ID 37)			
558	2	An optimal defuzzification method for Interval Type-2 Fuzzy Logic Control Scheme (ID 86)			
559	3	Incorporating Logic in Artificial Bee Colony (ABC) Algorithm to Solve First Order Logic Problems: The Logical ABC (ID 101)			
560	4	Detection of Current Research Directions Based on Full-Text Clustering (ID 339)			
561	5	A Novel Approach Towards Context Sensitive Recommendations Based On Machine Learning Methodology (ID 395)			
562	6	High-Frequency Trading Strategies using Wavelet-transformed Order Book Information and Dynamic Bayesian Networks (ID 408)			

563	7	Text mining and NLP Techniques Applied for Pathogenic Mutations in some Protein Families (ID 464)			
		SAI Computing Conference 2018, London, UK, 2018 http://saiconference.com/Conferences/Computing2018	ISI	5	50
564	1	User centric mobile based Decision Making System using natural Language Processing (NLP) and Aspect Based Opinion Mining (ABOM) Techniques for Restaurant Selection (ID 6)			
565	2	The (Un) Lawfulness of Autonomous Weapons (ID19)			
566	3	On Requirements for events Processing Network Models using Business Event Modeling Notation (ID 41)			
567	4	Minimum Spanning Tree Problem with Single-Valued Trapezoidal Neutrosophic Numbers (ID 141)			
568	5	Hybrid Vehicular Network System for the Malfunctioned Vehicles over Highways (Id 338)			
		SAI Computing Conference, London, UK, 2019 http://saiconference.com/Computing)	**BDI**	**4**	**24**
569	1	Stock Market Trend Prediction in Sub-Saharan Africa using Generalized Additive Models (ID 150)			
570	2	Automatic Derivation of Formulas by Graph Embedding and Pattern Matching Network (ID 218)			
571	3	Multi-channel speaker separation unsing speaker-aware beamformer			
572	4	An Artificial Intelligence System Based IPv4 Packet Classification in Software Defined Network (ID 421)			
		SAI Computing Conference, London, UK, 2016 (http://saiconference.com/Conferences/Computing2016)	**ISI**	**1**	**10**
573	1	A Smart Display Component Model For Embedded Systems Modeling and Simulation (ID 70)			
		SAI Intelligent Systems Conference, Londra, UK, 2015; (http://saiconference.com/Conferences/IntelliSys2015)	**ISI**	**7**	**70**
574	1	An integrated similarity mesure between Atanassov's intuitionistic fuzzy sets with its propriety (ID 4)			
575	2	The CREDO stack: theory to practice in cognitive systems engineering (ID 34)			
576	3	Practical Machine Learning Solution for Increasing Profit in a Car Repair Service (ID 67)			
577	4	Fine Tuning the Tree Augumented Naive Bayes (FTTAN) Learning Algorithm (ID 85)			
578	5	Categorisation of Supreme Court Cases using Multiple Horizontal Thesauri (ID 142)			
579	6	Analysis of Single Phase Air Plasma Cutting Machine using PIC (ID 171)			
580	7	Evaluation and Comparison of Anomaly Detection Algorithms in Annotated Datasets fromthe Maritime Domain (ID 207)			
		11th International Conference on Electromechanical an Power Systems SIELMEN 2017, Chisinau, Rep. Moldova, (IEEE Xplore), (http://www.sielmen.tuiasi.ro/2017)	**ISI**	**5**	**50**
581	1	Latvian EPS Stability's analysis taking into account new strategy of development until 2025 (ID 21)			
582	2	Alegerea materialelor electrozilor pentru reducerea consumului de energie electrică (ID 54)			
583	3	Analysis of the state and possibilities for increasing the efficiency of the district heating system in Chisinau (ID 72)			
584	4	Analysis of the actual situation regarding the methods of processing the neutral in the 6-35 kV networks (ID 543)			
585	5	Methodical approach to weak buses and ties detection in a power system (ID 571)			
		2nd International Conference on Software, Multimedia and Communication Engineering (SMCE2017), Shanghai, China. (Compendex) (http://www.smce2017.org/)	**BDI**	**2**	**12**
586	1	Aircraft Detection in Remote Sensing Images via CNN Multi-scale Feature Representation (SMCE1575)			
587	2	A Study on Chinese Cognition of Bilinguals Based on Eye Movement Technique (SMCE1580)			

		IET The Journal of Engineering (http://digital-library.theiet.org/journals/joe/about)	**ISI**	**4**	**40**
588	1	Statistical Data Minning approach considering outlier detection for photovoltaic plant (JOE-2017-0232)			
589	2	Study on the Life Cycle Energy Consumption and Carbon Balance Capacity of Timber Structure Building (JOE-2018-5251)			
590	3	Study on the Life Cycle Energy Consumption and Carbon Balance Capacity of Timber Structure Building (JOE-2018-5251.R1)			
591	4	A Mathematical model approach in the engineering industry for production planning problem: A case study (JOE-2018-5150)			
		The Scientific World Journal, (EBSCO)https://www.hindawi.com/journals/tswj/ai/	**BDI**	**1**	**6**
592	1	A Pragmatic Approach for Increasing Energy Efficiency in Industrial Electrical Distribution through Loss Reduction (473819.v1)			
		International Conference on New Energy and Future Energy System, Beinjing, China, 2016 (SCOPUS) (http://www.intergridconf.org/2016/Committee.html)	**BDI**	**13**	**78**
593	1	The Research on Transmission Performance of PTP (FES1009)			
594	2	Research on PTP Transmission Performance in Different Link Lengths (FES1008)			
595	3	Power Flow Calculation for Weakly Meshed Distribution Network with Distributed Generation Considering Static Load Characteristics (FES1014)			
596	4	Application and Review of Distribution Network Transformer Energy Conservation and Reconstruction Technologies and Methods (FES1022)			
597	5	Study on energy saving technology of electrostatic precipitator power supply device (FES1029)			
598	6	Study on the change rule of the dissolved water content in jet fuels (FES1052)			
599	7	The simulation and research on over-voltage suppression for high voltage transmission line (FES0157)			
600	8	Analysis on Investment Risk of Energy-Saving Reconstruction for ESCO based on System Dynamics (FES1062)			
601	9	Accelerated hydrolysis of solid-state NaBH4/Al system by Co2B milled with Li for hydrogen generation (FES1080)			
602	10	Economic-energy-industrial-environmental optimization (EEIEO) model for identification of optimal strategies - A case study of Beijing-Tianjin-Hebei region, China (FES1105)			
603	11	Power Flow Calculation for Weakly Meshed Distribution Network with Distributed Generation Considering Static Load Characteristics (FES1014R1)			
604	12	Analysis on Investment Risk of Energy-Saving Reconstruction for ESCO based on System Dynamics (FES1062R1)			
605	13	Economic-energy-industrial-environmental optimization (EEIEO) model for identification of optimal strategies - A case study of Beijing-Tianjin-Hebei region, China (FES1105R1)			
		The 7th International Conference on Electronics, Communications and Networks (CECNet 2017), National Dong Hwa University, Hualien, Taiwan, 2017 (Compendex) (http://www.cecnetconf.org/)	**BDI**	**2**	**12**
606	1	City Cloud Brain, a New Architecture of Smart City Based on the Internet Cloud Brain (CNT2272) (2 octombrie 2017)			
607	2	City Cloud Brain, a New Architecture of Smart City Based on the Internet Cloud Brain (CNT2272R1) (19 octombrie 2017)			
		Journal of Scientific Research and Reports (EBSCO, ProQuest) (http://www.sciencedomain.org/journal/22/abstracting-indexing)	**BDI**	**3**	**18**
608	1	Prepaid metering empowerment for Need Based Energy Management System (JSRR_36344) (6 septembrie 2017)			
609	2	Prepaid metering empowerment for Need Based Energy Management System (JSRR_36344R1) (10 noiembrie 2017)			
610	3	Electricity Demand and Supply Scenario Analysis for Nigeria Using Long Range Energy Alternatives Planning (LEAP) (Ms_JSRR_39719)			
		Power and Energy Systems (POES '17) Conference, Roma, Italia (Scopus) (http://wseas.org/cms.action?id=15645)	**BDI**	**1**	**6**
611	1	An Intelligent Voltage Control System for Large scale Power System (75205-103)			

		Symmetry (http://www.mdpi.com/journal/symmetry)	**ISI**	**2**	**20**
612	1	A Hybrid Fuzzy DEA/AHP Methodology for Ranking Units in a Fuzzy Environment (symmetry-234732) (25 October 2017)			
613	2	A Hybrid Fuzzy DEA/AHP Methodology for Ranking Units in a Fuzzy Environment (symmetry-234732R1) - (5 November 2017)			
		The International Conference on Energy and Mechanical Engineering (EME2017) (Compendex) (http://www.eme2017.org)	**BDI**	**2**	**12**
614	1	Design and simulation of Inverter based on Space vector pulse width modulation (E2459)			
615	2	The Evaluation Method of the Lightning Strike on Transmission Lines Aiming at Power Grid Reliability (E2465)			
		3rd Annual International Workshop on Wireless Communication and Network (IWWCN2017), Beijing, China, (EI Compendex) http://www.iwwcn2017.org	**BDI**	**3**	**18**
616	1	Design and implementation of wireless invoice intelligent terminal based on ARM (N120)			
617	2	Execution Time Forecasting of Automatic Test Case Generation Based on Genetic Algorithm and BP Neural Network (N122)			
618	3	Combating Malicious Eavesdropper in Wireless Full-Duplex Relay Networks: Cooperative Jamming and Power Allocation (N123)			
		The 2018 International Conference on Information Science and Technology, Wuhan, China, 2018 (http://www.icist2018.org/	**BDI**	**2**	**12**
619	1	A Lane Detection Technique Based on Adaptive Threshold Segmentation of Lane Gradient Image (IST1842)			
620	2	Functional Safety Design of Four-Wheel Independent Brake System on Electric Vehicle (IST1810)			
		The 2018 International Conference on Software Engineering and Service Science (http://www.icsess2018.org/)	**BDI**	**3**	**18**
621	1	Research and Practice on Performance Test of Call Center Platform System (ICS122)			
622	2	A Research on the Stability and Support Technology of Pit in Half Water in the Soft Soil Foundation (ICS125)			
623	3	How Service Interaction Quality Affects Customer Loyalty in an Experience Service Environment: A Conceptual Model Based on Customer Experience Quality (ICS135)			
		Transactions on Industrial Electronics (http://ieeexplore.ieee.org/xpl/aboutJournal.jsp?punumber=41)	**ISI**	**1**	**10**
624	1	An Open Source Framework for Smart Meters: Data Communication and Security Traffic Analysis (17-TIE-3154)			
		IEEE Transactions on Sustainable Computing (http://ieeexplore.ieee.org/xpl/aboutJournal.jsp?punumber=7274860#AimsScope)	**ISI**	**3**	**30**
625	1	Application-Aware Data Concentration for Advanced Metering Infrastructures (TSUSC-2017-10-0113)			
626	2	A Privacy-Preserving Aggregation Scheme Based on Negative Surveys for Smart Meters (TSUSC-2018-01-0004)			
627	3	A Privacy-Preserving Aggregation Scheme Based on Negative Surveys for Smart Meters (TSUSC-2018-01-0004.R1)			
		Current Journal of Applied Science and Technology (http://www.sciencedomain.org/journal/70)		**1**	**3**
628	1	Reducing the Cost of Exploring Neighborhood Areas in Dynamic Local Search for SAT (Ms_CJAST_38361)			
		Resources, Conservation and Recycling https://www.journals.elsevier.com/resources-conservation-and-recycling	**ISI**	**2**	**20**
629	1	An interval fuzzy queue-storage model for electric power systems planning under dual uncertainties - a case study of Shijiazhuang, China (RECYCL-D-18-00188)			
630	2	An interval fuzzy queue-storage model for electric power systems planning under dual uncertainties - a case study of Shijiazhuang, China (RECYCL-D-18-00188R1)			
		Mathematical Problems in Engineering (https://www.hindawi.com/journals/mpe)	**ISI**	**3**	**30**

631	1	Comparing sequential with combined spatiotemporal clustering of passenger trips in the public transit network using smart card data (5070794)			
632	2	Comparing sequential with combined spatiotemporal clustering of passenger trips in the public transit network using smart card data (5070794R1)			
633	3	A New Binary Adaptive Elitist Differential Evolution based Automatic k-medoids Clustering for Probability Density Functions (6380568)			
		2019 International Conference on Smart Power & Internet Energy Systems http://www.icspies.org	**ISI**	**2**	**20**
634	1	Genetic Algorithm for optimal location & size of synchronous Distributed Generation (SS0023)			
635	2	Minimizing cost of energy consumption by optimal utilization of energy resources in an apartment building (SS0028)			
		Intelligent Systems Conference (IntelliSys) 2019 **http://saiconference.com/IntelliSys**	**BDI**	**4**	**24**
636	1	Considering selected aspects of Tensor Product Variable Binding in Connectionist Systems (ID 264)			
637	2	Considering selected aspects of Tensor Product Variable Binding in Connectionist Systems (ID 273)			
638	3	Evaluation Of Predictive Data Mining Algorithms In Student Academic Performance (ID 289)			
639	4	Context-Aware Data Mining (CADM) vs Classical Data Mining (DM) Applied on Predicting Soil Moisture (ID 347)			
		Computing Conference 2019, London, UK, 16-17 July, 2019 **http://saiconference.com/Computing**	**BDI**	**4**	**24**
640	1	Stock Market Trend Prediction in Sub-Saharan Africa using Generalized Additive Models (GAMs) (ID 150)			
641	2	Automatic Derivation of Formulas by Graph Embedding and Pattern Matching Network (ID 218)			
642	3	Multi-channel speaker separation using speaker-aware beamformer (ID 272)			
643	4	An Artificial Intelligence System Based IPv4 Packet Classification in Software Defined Network (ID 421)			
		The Third International Conference on Energy Engineering and Environmental Protection (EEEP2018) **http://www.iceeep.org/2018/Default.aspx**	**BDI**	**1**	**6**
644	1	A Two-Layer Electric Energy Substitute Planning Model with the Rationality of Regional and Annual Target (EEEP29096)			
		9th Annual International Conference of Information and Communication Technology (ICICT2019), Nanning, Guangxi, China, 2019, **http://www.icictconf.org/menu/home**	**BDI**	**23**	**138**
645	1	Manuscript title Research On Server In System Based On Mobile Client (A1912)			
646	2	Research on the Innovation of Protecting Intangible Cultural Heritage in the "Internet Plus" Era (A1913)			
647	3	Research on Software testing Technology based on Fault Tree Analysis (A1914)			
648	4	An Automotive Needle Meter Dynamic Test Method Based on Computer Vision and HIL Technology (A1915)			
649	5	Traffic Sign Image Enhancement in Low Light Environment (A1916)			
650	6	Development of Wearable body fatigue evaluation and awakening system (A1917)			
651	7	An Improved Multilabel Classification Model based on Mixed Active Learning Framework (A1918)			
652	8	Design of wireless node based on AR9341 (A1919)			
653	9	Excellent Extensions And Auslander-Type Conditions (A1920)			
654	10	Research and Design of a Key Technology for Accelerating Convolution Computation Based on FPGA (A1921)			
655	11	Research on ZigBee Indoor Technology Positioning Based on RSSI (A1922)			
656	12	The research of building earthquake damage object-oriented segmentation based on multi feature combination with remote sensing image (A1923)			
657	13	Research on Feedback-Sensitive Resource Mapping Algorithm Based On Simulated Annealing in SDN (A1924)			
658	14	Deep Learning-Based Power Usage Forecast Modeling and Evaluation (A1925)			

659	15	A Pragmatic Prototype To Enhance The Quality Pre-University Level Skills Towards Further Development Of Human And Knowledge Attributes In The Region (A1927)			
660	16	Knowledge Based Information System To Manage Transfer of Credits In An Outcome Based Higher Educational Setting (A1928)			
661	17	Deficiencies and Countermeasures of Financial Indicators in Enterprise Performance Evaluation (A1929)			
662	18	Research and Implementation of Key Technologies in FTTH Networks Combining (A1932)			
663	19	Failure Analysis of Ultra-High Strength Bolt of Circuit Breaker (A1940)			
664	20	MinFinder: A New Approach in Sorting Algorithm (A1941)			
665	21	Deep-learning-based Agile Teaching Framework of Software Development Courses in Computer Science Education (A1942)			
666	22	Research on Crack Detection Algorithm of the Concrete Bridge Based on Image Processing (A1943)			
667	23	SiaMemory: Target Tracking (A1944)			
		IEEE Transactions on Industrial Electronics https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=41	ISI	4	40
668	1	Multi-Task Bayesian Spatiotemporal Gaussian Processes for Short-term Load Forecasting (18-TIE-2829)			
669	2	Multi-Task Bayesian Spatiotemporal Gaussian Processes for Short-term Load Forecasting (18-TIE-2829.R1)			
670	3	On Open Source Framework for Smart Meters: Data Communication and Security Traffic Analysis ((18-TIE-2829)			
671	4	On Open Source Framework for Smart Meters: Data Communication and Security Traffic Analysis ((18-TIE-2829.R1)			
		IET Communications (https://digital-library.theiet.org/content/journals/iet-com)	ISI	2	20
672	1	A Distributed Energy Efficient Algorithm for Ensuring Coverage of Wireless Sensor Networks (COM-2018-5329)			
673	2	A Distributed Energy Efficient Algorithm for Ensuring Coverage of Wireless Sensor Networks (COM-2018-5329.R1)			
		IET Generation, Transmission & Distribution (https://digital-library.theiet.org/content/journals/iet-gtd)	ISI	4	40
674	1	Technical And Non-Technical Losses Calculation in Distribution Grids Using a Defined Equivalent Operational Impedance (GTD-2018-5334)			
675	2	Technical And Non-Technical Losses Calculation in MV and LV Distribution Grids (GTD-2017-1850)			
676	3	Comparative Study on Supplied and Loss Energy Computations Utililizing Numerical Integrations (GTD-2018-6526)			
677	4	Electricity Consumption Behaviour Analysis Based on Adaptive Weighted – Feature Kmeans – Affinity Propagation Clustering (GTD-2018-5286.R1)			
		IET Renewable Power Generation (https://digital-library.theiet.org/content/journals/iet-rpg	ISI	3	30
678	1	Modelling of a Thermo-electric Energy Management System including Heat Pumps for an Off-Grid System (RPG-2018-5505)			
679	2	Smart Demand Management Algorithm for Distinctive Residential Loads ro Enhance the Resiliency in Rural Islanded Microgrids (RPG-2018-5864)			
680	3	Modelling of a Thermo-electric Energy Management System including Heat Pumps for an Off-Grid System (RPG-2018-5505.R1)			
		International Journal of Advanced Computer Science and Applications (http://thesai.org/Publications/Citations?code=IJACSA)	ISI	3	30
681	1	A new uncertainty measure in belief entropy framework			
682	2	Assessing the impact of information on wealth distribution: a complex systems approach			
683	3	Secure Digital Databases using Watermarking based on English-Character Attributes			
		Journal of Basic and Applied Research international	**BDI**	**1**	**6**
684	1	Application of Energy Storage and Demand Response for Peak Shaving/Load Leveling in A Smart Distribution System (Ms_JOBARI_6384)			
		Journal of Economics, Management and Trade (http://www.sciencedomain.org/journal/66/abstracting-indexing)	**BDI**	**2**	**12**

685	1	World Energy Consumption: regional differences and features of change (Ms_JEMT_40232)			
686	2	Growth, Electric Power Consumption Externalities and Patterns of Localization of Emissions (Ms_JEMT_44455)			
		Journal of Electrical Engineering, Electronics, Control and Computer Science (https://jeeeccs.net/index.php/journal)	**BDI**	**1**	**6**
687	1	Application for collecting data from sensors and transmitting them through the network (111-412-1-RV)			
		The 3rd International Conference on New Energy and Future Energy System, August 21st - 24th, 2018, Shanghai, China (http://www.intergridconf.org/2018/)	**BDI**	**1**	**6**
688	1	Analysis of distribution network node vulnerability considering DGs (FES1925)			
		Recent Advances in Electrical and Electronic Engineering (https://benthamscience.com/journals/recent-advances-in-electrical-and-electronic-engineering/)	**BDI**	**5**	**30**
689	1	Power Loss Minimization of Distribution Network of Jaipur City by DG and Capacitor Allocation (BMS-EENG-2018-35)			
690	2	ANFIS Controller Design of DFIS under Distorted Grid Voltage Situations (BMS-EENG-2018-37)			
691	3	An Equivalent Magnetic Circuit Model of the PMSM Demagnezation Fault ((BMS-EENG-2018-43)			
692	4	Full-Duplex NOMA for D2D Transmission: Relay Section Model and Performance Analysis (BMS-EENG-2018-93)			
693	5	Observer-based multiplicative passive control for a class of uncertain time delay sampled-data system (BMS-EENG-2018-139)			
		Robotics, Control And Manufacturing Technology Conference (ROCOM '19), Lisbon, Portugal, April 12-14, 2019 (http://www.wseas.org/cms.action?id=19530)	**BDI**	**1**	**6**
694	1	Modelling of Boiler Drum Level Control using Flownex Software Environment (76705-100 (25357)			
			TOTAL		**5689**

3.6. Premii

Nr crt.	Premiul	Sucategoria	Punctaj
1	Premiu CNCSIS prin Programul de finanţare > Planul Naţional PN II (2007 - 2013) > RESURSE UMANE > Premierea rezultatelor cercetării, in 2009 pentru lucrarea Clustering Techniques in Load Profile Analyze for Distribution Stations, publicată în jurnalul internaţional indexat ISI Journal of Advances in Electrical and Computer Engineering. http://www.cncsis.ro/articole/1941/Etapa-I_2009.html	CNCSIS	15
2	Premiu CNCSIS prin Programul de finanţare > Planul Naţional PN II (2007 - 2013) > RESURSE UMANE > Premierea rezultatelor cercetării, in 2012 pentru lucrarea Two-stage distributed generation optimal sizing with clustering-based node selection, publicată în jurnalul internaţional indexat ISI International Journal of Electrical Power and Energy Systems. http://www.cncs-nrc.ro/wp-content/uploads/2012/12/rezultate-10-DECEMBRIE.pdf	CNCSIS	15

3	Premiu CNCSIS prin Programul de finanţare > Planul Naţional PN II (2007 - 2013) > RESURSE UMANE > Premierea rezultatelor cercetării, in 2013 pentru lucrarea Human errors monitoring in electrical transmission networks based on a partitioning algorithm publicată în jurnalul internaţional indexat ISI International Journal of Electrical Power and Energy Systems, http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202013/LISTA%201%20ACTUALIZATA%20NOU%2018%20DECEMBRIE.pd	CNCSIS	15
4	Premiu CNCSIS prin Programul de finanţare > Planul Naţional PN II (2007 - 2013) > RESURSE UMANE > Premierea rezultatelor cercetării, in 2015 pentru lucrarea An assessment of the renewable energy potential using a clusteringbased data mining method. Case study in Romania publicată în jurnalul internaţional indexat ISI ENERGY, http://old.uefiscdi.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202015/REZULTATE/Rezultate_lista_4_30_11_2015.pdf	CNCSIS	15
			60

3.7.4. Membru în academii, organizaţii

Nr crt.	**Subcategorii (National / International)**	Asociații profesionale	**Punctaj**
1	National	SETIS	2
2	International	International Association of Engineers (IAENG)	5
3	International	World Academy of Science, Engineering and Technology (WASET)	5
			12

Data: 28.10.2019

Conf. dr. ing. Grigoraș Gheorghe

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAŞI
FACULTATEA DE INGINERIE ELECTRICĂ, ENERGETICĂ ȘI INFORMATICĂ APLICATĂ
DEPARTAMENTUL DE ENERGETICĂ

FIŞA DE VERIFICARE

a îndeplinirii standardelor universităţii de prezentare la concurs pentru postul de conferenţiar universitar

.

Candidat: Gheorghe Grigoraș / Data naşterii:28.02.2017 Funcţia actuală: Conf.

Data numirii în funcţia actuală: 9.02.2018 (Decizia TUIASI nr. 315/09.02.2018), Instituţia: Universitatea Tehnică ”Gheorghe Asachi” Iași

1. Studiile universitare de licenţă

Nr. crt.	Instituţia de învăţământ superior şi facultatea absolvită – anul absolvirii	D o m e n i u l / programul de studii (specializarea)	Titlul acordat	Media de şcolaritate	Media examenului de finalizare
1	Universitatea Tehnică ”Gheroghe Asachi” din Iasi, Facultatea de Electrotehnică - 1999	Domeniul Energetic/Eletroenergetică	Ing.	9,63	9,75

2. Studiile universitare de master

Nr. crt.	Instituţia de învăţământ superior şi facultatea absolvită – anul absolvirii	D o m e n i u l / programul de studii (specializarea)	Media de şcolaritate	Media examenului de finalizare
1	Universitatea Tehnică ”Gheroghe Asachi” din Iasi, Facultatea de Electrotehnică – 2000	Domeniul Energetic/Optimizarea structurii și regimurilor instalațiilor electroenergetice	10	10

2. Studiile de doctorat

Nr. crt.	Instituţia organizatoare de doctorat	D o m e n i u l	Perioada	Titlul ştiinţific acordat
1	Universitatea Tehnică ”Gheroghe Asachi” din Iasi	Energetică	1999 – 2005	dr. ing.

3. Studii şi burse postdoctorale (stagii de cel puţin 6 luni)

Nr. crt.	Ţara / I n s t i t u ţ i a	D o m e n i u l / Specializarea	Perioada	Tipul de bursă

4. Grade didactice/profesionale

Nr. crt.	I n s t i t u ţ i a	D o m e n i u l	Perioada	Titlul/postul didactic sau gradul/postul profesional
1.	Universitatea Tehnică ”Gheroghe Asachi” din Iasi	Energetică	1999 – 2002	Prep. Univ.
2.	Universitatea Tehnică ”Gheroghe Asachi” din Iasi	Energetică	2002– 2004	Asist. Univ.
3.	Universitatea Tehnică ”Gheroghe Asachi” din Iasi	Energetică	2004– 2018	Sef lucr.
4.	Universitatea Tehnică ”Gheroghe Asachi” din Iasi	Energetică	2018– prezent	Conf.

5. Îndeplinirea standardelor minimale ale universităţii

Tabelul 1. Standardul minimal al universităţii SMU.CONF.1 – Activitatea didactică

Standardul minimal al universităţii SMU.CONF.1 – Activitatea didactică	Indicatori de performanţă			Realizări (se trec cifrele de ordine ale realizărilor cuprinse în lista de lucrări, iar, după caz, celelalte realizări se nominalizează explicit)	Punctaj/ realizare	Număr impus de realizări	Număr de realizări ale candidatului	Număr puncte
Valoarea contribuţiilor la dezvoltarea activităţilor didactice / profesionale, prin cărţi/ capitole publicate în edituri recunoscute CNCS, sisteme de laborator funcţionale, metode de lucru avansate aplicate etc. - după caz, cu referire distinctă la realizările după acordarea ultimului titlu didactic/ grad profesional.	Ca	Carte/ curs/ manual publicată în străinătate			8	-	-	-
		Capitol carte/ curs/ manual publicat în străinătate			6	-	-	-
		Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)		Ca1 (5*124 pag/100/1 autor = 6,2 puncte) Ca4 (5*158 pag/100/3 autori = 2,63 puncte) Ca5 (5*116 pag/100/5 autori = 1,16 puncte) Ca6 (5*124 pag/100/5 autori = 1,24 puncte)	5	1	4	11,23
		Capitol curs/ manual publicat în editură recunoscută CNCS			3	-	-	-
	I	Indrumar laborator/ proiect/ lucrări seminar/ culegere de probleme (publicat sau disponibil pe Web)		I1 (4*106 pag/100 / 1 autor = 4,24 puncte)	4	1	1	4,24
	D	Sisteme de laborator funcţionale (numai pentru disciplinele prevăzute cu	Amenajare lucrare nouă de laborator cu instalaţie experimentală	-	2	2	4	-
			Amenajare/ concepere lucrare nouă de laborator/ proiect/	D1, D2, D3, D4 (4 * 1,5 = 6 puncte)	1,5			6

		lucrări de laborator/ proiect/ lucrări)	simulare pe calculator/ studiu de caz					
			Contribuţie la dotarea laboratoarelor, în valoare echivalentă cu 500 Euro	7389.6 lei = 1610 euro (prin Contract nr. 1398P / 08.10.2014) 1500 lei = 326 euro (prin Programul de perfecționare în vederea autorizării ANRE 2014 – 2015)	1	-	2	3,94
	W	Utilizarea sistemelor de predare/ învăţare/ evaluare de tip e-learning/ on-line/ multimedia etc.	Suport de studiu/ autoinstruire pe Web pentru seminar, laborator, proiect (integral pentru o disciplină)	W1, W2	1	1	2	2
			Suport de prezentare/ instruire text/ video/ audio/ ppt a disciplinei	W3, W4	1		2	2
Total puncte SMU.CONF.1 (min. 16) **29,41**								

Punctajul se calculează conf. Anexei 3.

Alte condiţii:
- deţine diploma de doctor în ramura de ştiinţă corespunzătoare postului sau într-o ramură înrudită;

***Pentru candidaţii care vin din afara Universităţii*:**
- media examenului de finalizare a studiilor universitare de licenţă şi de masterat: minim 9,00
- media generală de şcolaritate: la licenţă minim 8,00, la masterat minim 9,00

Data, 28.10.2019

Conf. dr. ing. Grigoraș Gheorghe

L I S T A D E L U C R Ă R I

Candidat: Grigoraş N. Gheorghe **- Dr**./ din 2005, Conferentiar / din 2018

1º Teza de doctorat
Tehnici noi de supraveghere si conducere a sistemelor electroenergetice, Data sustinerii 18.03.2005, Conducător stiintific: Prof. dr. ing. Cârțină Gheorghe

2º Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcţionale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum şi alte lucrări (M1, M2 etc.) prin care se aduc *contribuţii la dezvoltarea activităţilor didactice/ profesionale.*

Ca	**Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)**
	Ca1 Gheorghe Grigoraş, *Metode numerice. Aplicatii in Matlab*. *Vol. II*, Editura PIM, Iasi, 124 pg., 2012, ISBN: 978-606-13-0770-8.
	Ca2 Gheorghe Grigoraş, *Metode numerice. Aplicatii in Matlab, Vol. I*, Editura PIM, 230 pg., 2010, ISBN: 978-606-13-0177-5.
	Ca3 Gheorghe Grigoraş, Gheorghe Cartina, Elena Crenguta Bobric, *Sisteme de supraveghere, conducere şi achiziţii de date*, Editura SETIS, Iasi, 220 pg., 2009, ISBN:978-606-92041-3-9.
	Ca4 Elena Crenguta Bobric, Gheorghe Cartina, **Gheorghe Grigoraş**, *Tehnici de optimizare în energetică*, Editura Didactică şi pedagogică, Bucuresti, 158 pg., 2008, ISBN 978-973-30-2425-5.
	Ca5 Mihai Gavrilas, Gheorghe Cartina, Virgil Alexandrescu, Ovidiu Ivanov, **Gheorghe Grigoraş**, *Modelarea sarcinilor din retelele electrice. Vol. I*, Editura PIM, Iasi, 2007, 124 pagini, ISBN: 978-973-716-433-4.
	Ca6 Mihai Gavrilas, Gheorghe Cartina, Virgil Alexandrescu, Ovidiu Ivanov, **Gheorghe Grigoraş** *Modelarea sarcinilor din retelele electrice. Vol. II*, Editura Cermi, Iasi, 116 pg., 2007, ISBN 978-973-667-315-3.
I	**Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)**
	I1 Gheorghe Grigoraş, *Optimizări în sistemele energetice. Aplicații practice,* Editura PIM, Iași, 106 pg., ISBN: 978-606-13-4053-8.
	I2 Gheorghe Grigoraş, Scarlatache Florina, *Metode numerice. Aplicații practice*, Editura PIM, Iași, 176 pg., 2014, ISBN: 978-606-13-2143-8.
	I3 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Tehnici moderne de optimizare. Aplicaţii în energetică*, Casa de Editură Venus, Iaşi, 210 pg., 2002, ISBN: 973-8174-80-5.
D	**Sisteme de laborator funcţionale**
	D1 Gheorghe Grigoras, *Biblioteca de functii Matlab pentru implementarea metodelor numerice in suportul de luare a deciziilor*, 2010 – 2014 (**8 module construite**). http://www.gheorghe-grigoras.ieeia.tuiasi.ro/suport_curs.html
	D2 Gheorghe Grigoras, *Aplatizarea curbelor de sarcină folosind programarea liniară in Matlab*, studiu de caz, 2015. http://www.gheorghe-grigoras.ieeia.tuiasi.ro/aplicatii_sdoe.html
	D3 Gheorghe Grigoras, *Criteriul abaterii medii pătratice în aprecierea variaţiilor lente de tensiune din rețelele electrice*, simulare pe calculator - studiu de caz, 2016. http://www.gheorghe-grigoras.ieeia.tuiasi.ro/aplicatii_sdoe.html
	D4 Gheorghe Grigoras, *Strategii privind economia de energie în rețelele electrice*, simulare pe calculator - studiu de caz, 2017. http://www.gheorghe-grigoras.ieeia.tuiasi.ro/aplicatii_sdoe.html
W	**Utilizarea sistemelor de predare/ învăţare/ evaluare de tip e-learning/ on-line/ multimedia etc.**
	W1 Gheorghe Grigoras, *Strategii si decizii optimale în energetică*, Suport de studiu pentru laborator (format electronic pdf) disponibil web: http://www.gheorghe-grigoras.ieeia.tuiasi.ro/aplicatii_sdoe.html
	W2 Gheorghe Grigoras, *Modelarea si optimizarea proceselor energetice industriale*, Suport de studiu pentru laborator (format electronic pdf) disponibil web: http://www.gheorghe-grigoras.ieeia.tuiasi.ro/aplicatii_mopei.html
	W3 Gheorghe Grigoras, *Modelarea și optimizarea proceselor energetice industriale*, Suport de

	prezentare pentru curs (format electronic ppt) disponibil web: http://www.gheorghe-grigoras.ieeia.tuiasi.ro/suport_curs.html
	W4 Gheorghe Grigoras, *Strategii și decizii optimale în energetică*, Suport de prezentare pentru curs (format electronic ppt) disponibil web: http://www.gheorghe-grigoras.ieeia.tuiasi.ro/suport_curs.html
	W5 Gheorghe Grigoras, *Metode numerice in inginerie*, Suport de studiu pentru laborator (format electronic pdf) disponibil web: http://www.gheorghe-grigoras.ieeia.tuiasi.ro/aplicatii_mn.html
	W6 Gheorghe Grigoras, *Metode numerice in inginerie*, Suport de prezentare pentru curs (format electronic ppt) disponibil web: http://www.gheorghe-grigoras.ieeia.tuiasi.ro/suport_curs.html
	W7 Gheorghe Grigoras, *Sisteme de conducere*, *supraveghere si achizitii de date*, Suport de prezentare pentru curs (format electronic ppt) disponibil web: http://www.gheorghe-grigoras.ieeia.tuiasi.ro/suport_curs.html
	W8 Gheorghe Grigoras, *Tehnici moderne de conducere*, Suport de prezentare pentru curs (format electronic ppt) disponibil web: http://www.gheorghe-grigoras.ieeia.tuiasi.ro/suport_curs.html

3º Cărţi/ capitole cărţi de specialitate publicate în edituri recunoscute din ţară sau din străinătate (Cb1, Cb2 etc.), articole/ studii publicate în reviste din ţară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenţie (B1, B2 etc.), creaţii artistice prezentate la manifestări recunoscute din ţară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor ştiinţifice naţionale/ internaţionale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum şi alte lucrări (N1, N2 etc.) prin care se aduc *contribuţii ştiinţifice la dezvoltarea domeniului.*

	Carte de specialitate publicată în editură din străinătate
	Cb1 Gheorghe Grigoraş, Florina Scarlatache, Bogdan-Constantin Neagu, *Clustering in Power Systems. Applications*, Lambert Academic Publishing, Germania, 264 pg. (**210 pg. Grigoraş**), 2016, ISBN: 978-3-330-01545-6.
	Cb2 Gheorghe Grigoraş, Gheorghe Cartina, *The impact of the Fuzzy Modeling in Electric Distribution Systems. Applications*, Lambert Academic Publishing, Germania, 168 pg., 2011, ISBN: 978-3-8473-2793-6.
	Capitol carte de specialitate publicată în editură din străinătate
	Cb3 Gheorghe Grigoraş, *Electrical Energy Consumption Forecasting to Improve Energy Efficiency of Water Distribution Systems*, Capitol in cartea *Energy Harvesting and Energy Efficiency. Technology, Methods, and Applications*, Editori: Nicu Bizon, Naser Mahdavi Tabatabaei, Frede Blaabjerg, Erol Kurt, Springer International Publishing, Switzerland, pp. 599 – 628, 2017, ISBN: 978-3-319-49874-4. (**indexat ISI**)
	Cb4 Florina Scarlatache, **Gheorghe Grigoraş**, *Impact of the Distributed Generation on Optimal Operation and Planning of the Electrical Networks*, capitol in cartea *Distributed Generation. Systems, Performance and Emerging Technologies*, Editor Tao, Lin Nova Science Publishers, USA, pp. 127 – 160, 2017, ISBN: 978 -1 – 53611-074-6.
Cb	**Cb5** Bogdan-Constantin Neagu, **Gheorghe Grigoraş**, *The Assessment of Power Quality in Electric Distribution Systems from Romania*, capitol in cartea *Advances in Energy Research*, Editor Morena J. Acosta, Nova Science Publishers, USA, pp. 57 - 110, 2017, ISBN: 978-1-53612-699-0.
	Cb6 Gheorghe Grigoraş, Gheorghe Cartina, Elena-Crenguta Bobric, *Trends and Directions for Energy Saving in Electric Networks* – capitol in cartea *Management of Technological Innovation in Developing and Developed Countries*, Ed. HongYI Sun, Editura Intech, Croatia, pp. 3 – 27, 2012, ISBN : 978-953-51-0365-3
	Carte de specialitate/ capitol publicat în editură din ţară, recunoscută CNCS
	Cb7 Mircea Eremia, Gheorghe Cartina, Dragos Petricică, Ion Bulac, Constantin Bulac, Ion Triştiu, **Gheorghe Grigoraş**, *Tehnici de inteligenţă artificială în conducerea sistemelor electroenergetice*, Editura AGIR, Bucureşti, 356 pg., 2006, ISBN: 973-160-106-X.
	Cb8 Gheorghe Cartina, **Gheorghe Grigoraş**, Elena Crenguta Bobric, *Tehici de clustering în modelarea fuzzy. Aplicaţii în energetica*, Casa de Editură VENUS, Iaşi, 230 pg., 2005, ISBN: 973-7960-86-6.
	Cb9 Gheorghe Cartina, **Gheorghe Grigoraş**, *Tehici de Inteligență Artificială în Electroenergetică*, Editura SETIS, Iaşi, 212 pg., 2004, ISBN: 973-86764-4-4.
	Cb10 Gheorghe Cârţină G., Yong-Hua Song, **Gheorghe Grigoraş**, *Optimal Operation and Planning of Power Systems*, Casa de Editură VENUS, Iaşi, 156 pg., 2003, ISBN: 973-7960-09-2.
	Cb11 Gheorghe Cartina, **Gheorghe Grigoraş**, *Inteligența Artificială. Optimizări în energetică*, Casa de Editură VENUS, Iaşi, 200 pg., 2001, ISBN: 973-8174-22-8.
	Articol publicat în revistă cotată ISI, cu factor de impact

	R1 Avishek Banerjee, Mihai Gavrilaș, **Gheorghe Grigoraș**, Samiran Chattopadhyay *Minimization of reliability indices and cost of power distribution systems in urban areas using an efficient hybrid meta-heuristic algorithm*, Soft Computing, 2017, https://doi.org/10.1007/s00500-017-2846-6, ISSN: 1432-7643, (**FI = 2.472**)
	R2 Gheorghe Grigoraș, Florina Scarlatache, *An assessment of the renewable energy potential using a clustering based data mining method. Case study in Romania*, Energy, Volume 81, pp. 416–429, 2015, ISSN: 0360-5442 (**FI = 4,52**) - Accession Number: WOS:000351248200041
	R3 Gheorghe Grigoraș, Elena-Crenguța Bobric*, Clustering Based Approach for Customers' Classification From Electrical Distribution Systems*, U.P.B. Sci. Bulletin, Series C, Vol. 77, Nr. 2, pp. 219-226, 2015, ISSN : 2286-3540 (**FI=0**) - Accession Number: WOS:000421799900018
	R4 Gheorghe Grigoraș, Cecilia Barbulescu, *Human errors monitoring in electrical transmission networks based on a partitioning algorithm*, International Journal of Electrical Power and Energy Systems, vol. 49, pp. 128–136, 2013, ISSN: 0142-0615 (**FI = 3,289**) - Accession Number: WOS:000317546900015
	R5 Gheorghe Grigoraș, Gheorghe Cârțină, *The fuzzy correlation approach in operation of electrical distribution systems*, The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, Vol. 32, Nr. 3, pp. 1044-1066, 2013, ISSN: 0332-1649 (**FI = 0,487**) - Accession Number: WOS:000317546900015
	R6 Florina Rotaru, Gianfranco Chicco, **Gheorghe Grigoraș**, Gheorghe Cârțină, *Two-stage distributed generation optimal sizing with clustering-based node selection*, International Journal of Electrical Power & Energy Systems, Vol. 40, Nr. 1, pp. 120–129, 2012, ISSN: 0142-0615 (**FI = 3,289**) - Accession Number: WOS:000304637300013
	R7 Gheorghe Grigoraş, Gheorghe Cârţină, Elena Crenguța Bobric, *Strategies for Power/Energy Saving in Distribution Networks*, Advances in Electrical and Computer Engineering, Vol. 10, Nr. 2, pp. 63 - 66, 2010, ISSN: 1582 – 7445 (**FI = 0,595**) - Accession Number: WOS:000280312600010
	R8 Marcel Istrate, **Gheorghe Grigoraș**, *Energy Consumption Estimation in Water Distribution Systems using Fuzzy Techniques*, Environmental Engineering and Management Journal, Vol. 9, Nr. 2, pp. 249 – 256, 2010, ISSN: 1582 – 9596 (**FI = 1,096**) - Accession Number: WOS:000276559000010
	R9 Elena Crenguța Bobric, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Clustering Techniques in Load Profile Analyze for Distribution Stations*, Journal of Advances in Electrical and Computer Engineering, Nr.1, pp. 63 – 66, 2009, ISSN: 1582 – 7445 (**FI = 0,595**) - Accession Number: WOS:000264815300011
	R10 Elena Crenguța Bobric, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Fuzzy Techniques used for Energy Losses Determination in Medium and Low Voltage Networks*, Journal of Electronics and Electrical Engineering, Nr. 2, pp. 95 – 98, 2009, ISSN: 1392 – 1215 (**FI = 0,859**) - Accession Number: WOS:000263760900021
	Articol publicat în revistă indexata in baze de date internaţionale (BDI)
	R11 Gheorghe Grigoraș, Mihai Gavrilaș, Florina Scarlatache, Mihaela Cazacu, Mihaela Cosarca, *Assessing Energy Losses in Unbalanced Low Voltage Electric Distribution Networks*, Energetica, Vol. 64, Nr. 2, pp. 53 – 59, 2016, ISSN: 1453-2360 (Index Copernicus), cod CNCSIS : 512
	R12 Gheorghe Grigoraș, Mihai Gavrilaș, Stelian Buliga, Cătălin Strugaru, *Solutions Regarding the Efficient Use of Transformers in Electric Distribution Networks*, Energetica, Vol. 63, Nr. 4, pp. 145 – 149, 2015, ISSN: 1453-2360, 2015 (Index Copernicus), cod CNCSIS : 512
	R13 Mihai Gavrilaș, **Gheorghe Grigoraș**, Stelian Buliga, Cătălin Strugaru*, Influence of Renewable Sources Integration on Technical Energy Losses in High Voltage Distribution Networks*, Energetica, Vol. 63, Nr. 4, pp. 139 – 144, 2015, ISSN: 1453-2360 (Index Copernicus), cod CNCSIS : 512.
	R14 Bogdan Neagu, **Gheorghe Grigoraș**, Florina Scarlatache, *Load Management in Distribution Systems with Smart Metering*, Energetica, Vol. 63, Nr. 4, pp. 150 – 156, 2015, ISSN: 1453-2360 (Index Copernicus), cod CNCSIS: 512.
	R15 Gheorghe Grigoraș, Bogdan-Constantin Neagu, *Market Clearing Price Forecasting in Deregulated Electricity Markets Using a Fuzzy Approach*, Acta Electrotehnica, Vo. 56, Nr. 3, pp. 113-116, 2015, ISSN : 1841-3323 (DOAJ, VINITI), cod CNCSIS: 576.
	R16 Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, *Data Mining Tools in Electricity Distribution Systems*, Acta Electrotehnica, Vol. 56, Nr. 3, pp. 209-212, 2015, ISSN : 1841-3323 (DOAJ, VINITI), cod CNCSIS: 576.
	R17 Gheorghe Grigoraș, *Assessment of Electrical Load in Water Distribution Systems Using Representative Load Profiles-Based Method*, Advances in Electrical Engineering, vol. 2014, Article ID 865621, 10 pages, 2014. doi:10.1155/2014/865621, ISSN: 2356-6655, ISSN: 2314-7636 (Online) (http://www.hindawi.com/journals/aee/2014/865621/), (DOAJ)

	R18 Florina Scarlatache, **Gheorghe Grigoraş**, Bogdan-Constantin Neagu, *The Impact Of Distributed Generation On The Voltage Control In Electrical Distribution Networks*, Energetica, Vol. 62, nr. 3, pp. 105 – 110, 2014, ISSN: 1453-2360 (Index Copernicus), cod CNCSIS: 512.
	R19 Gheorghe Grigoraş, Mihai Gavrilaș, *Maximum Load Estimation of Consumers in Low Voltage Networks Using a Clustering Techniques Based Method*, Energetica, Vol. 62, Nr. 3, pp. 90 – 94, 2014, ISSN: 1453-2360 (Index Copernicus), cod CNCSIS: 512.
	R20 Florina Scarlatache, **Gheorghe Grigoraş**, *A Wind Energy Profiling Method Based On Unsupervised Learning Techniques*, Buletinul Institutului Politehnic din Iasi, Secţia: Electrotehnică, Energetică, Electronică, Tomul LX (LXIV), Fasc. 2, pp. 9-17, 2014, ISSN 1223-8139 (Index Copernicus, getCITED, Ulrich's), cod CNCSIS: 87.
	R21 Gheorghe Grigoraș, Florina Scarlatache, Cecilia Bărbulescu, *Optimal power flow analysis using the correlation method for estimation of nodal loads*, Acta Electrotehnica, vol. 54, no. 5, 2013, pp. 208 – 2012, 2013, ISSN : 1841-3323 (DOAJ, VINITI), cod CNCSIS: 576.
	R22 Gheorghe Grigoraș, Florina Scarlatache, Cecilia Bărbulescu, Analysis of incidents caused by human factor in transmission power grids, Acta Electrotehnica, vol. 54, no. 5, 2013, pp. 204 – 2007, 2013, ISSN : 1841-3323 (DOAJ, VINITI), cod CNCSIS: 576.
	R23 Gheorghe Grigoraș, Virgil Alexandrescu, Gheorghe Cârțină, Florina Scarlatache, *Estimation of Power/Energy Losses in Electric Distribution Systems based on an Efficient Method*, TELKOMNIKA Indonesian Journal of Electrical Engineering, vol. 11, No. 9, pp. 4854-4860, 2013, ISSN: 2302-4046, e-ISSN: 2087-278X (http://www.iaesjournal.com/online/index.php/TELKOMNIKA). (SCOPUS)
	R24 Gheorghe Grigoraş, Florina Scarlatache, *Clustering to Peak Load Estimation in Transformer Substations from Electric Distribution Systems*, Buletinul Institutului Politehnic din Iasi, Secţia: Electrotehnică, Energetică, Electronică, Tomul LIX (LXIII), Fasc. 3, pp. 141-149, 2013, ISSN 1223-8139 (Index Copernicus, getCITED, Ulrich's), cod CNCSIS: 87.
	R25 Gheorghe Grigoraș, Florina Scarlatache, *Estimation of Power/Energy Losses in Electric Networks Using Artificial Intelligence Techniques*, Energetica, Vol. 61, Nr. 5, pp. 189 – 193, 2013, ISSN: 1453-2360 (Index Copernicus), cod CNCSIS: 512.
	R26 Florina Scarlatache, **Gheorghe Grigoraş**, *An Approach Regarding the Placement of Distributed Generation Sources in Electric Distribution Systems using Hurwitz Criterion*, Buletinul Institului Politehnic din Iasi, Seria Electrotehnica, Energetica, Tomul LVIII(LXII), No. 4, pp 109 - 117, 2012, ISSN: 1223-8139 (Index Copernicus, getCITED, Ulrich's), cod CNCSIS: 87.
	R27 Florina Scarlatache, **Gheorghe Grigoraș**, Gheorghe Cârțină, Using of Clustering Techniques for Placement of Distributed Generation Sources in Electrical Distribution Systems, Buletinul AGIR, No. 3, pp. 1 - 6, 2012. ISSN: 2247-3548 (Index Copernicus), cod CNCSIS: 415.
	R28 Gheorghe Grigoraș, Gheorghe Cârțină, *Impact of the fuzzy modeling in operation of electric distribution systems*, WSEAS Transactions on Circuits and Systems, vol. 11, no. 4, pp. 105 – 114, 2012, E-ISSN: 2224-266X (SCOPUS)
	R29 Florina Scarlatache, **Gheorghe Grigoraș**, Gheorghe Cârțină, *An Algorithm based on the Clustering Techniques for the Optimal Placement of the Distributed Generation Sources in Distribution Systems*, Buletinul Institului Politehnic din Iasi, Seria Electrotehncica, Energetica, Tomul LVIII(LXII), No. 1, pp. 115 – 124, 2012, ISSN 1223-8139 (Index Copernicus, getCITED, Ulrich's), cod CNCSIS: 87.
	R30 Gheorghe Grigoraș, Cecilia Bărbulescu, Gheorghe Cârțină, Daniela Comănescu, *Human Errors Monitoring in Electrical Transmission Networks*, Journal of Energy and Power Engineering, vol. 6, no. 3, pp. 425 – 428, 2012, ISSN: 1934-8975 (CSA)
	R31 Virgil Alexandrescu, Gheorghe Cârțină, **Gheorghe Grigoraș**, *On Distribution Network Operation Analysis,* Buletinul Institului Politehnic din Iasi, Seria Electrotehnica, Energetica, Tomul LVIII(LXII), No. 1, pp. 105 – 114, 2012, ISSN : 1223-8139 (Index Copernicus, getCITED, Ulrich's), cod CNCSIS: 87.
	R32 Gheorghe Grigoraș, Gheorghe Cârțină, *Impact of the Fuzzy Typical Load Profiles in Distribution Network Control*, Journal of Electrical and Control Engineering, vol. 2, no. 1, pp. 8 – 14, 2012, ISSN : 2223-2036 (DOAJ)
	R33 Gheorghe Grigoraș, Daniela Comanescu, Gheorghe Cârțină, *Solutions Regarding to Reducing of Electrical Consumptions in Hydropower Plants*, Buletinul Institului Politehnic din Iasi, Seria Electrotehncica, Energetica, Tomul LVI(LX), No. 1, pp. 133 – 140, 2011, ISSN: 1223-8139 (Index Copernicus, getCITED, Ulrich's), cod CNCSIS: 87.
	R34 Gheorghe Grigoraș, Gheorghe Cârțină, *Improved Fuzzy Load Models by Clustering Techniques in Distribution Network Control*, International Journal on Electrical Engineering and Informatics, Vol. 3, no. 2, pp. 207 – 216, 2011, ISSN 2085-6830, (SCOPUS)

	R35 Gheorghe Grigoraş, Daniela Comanescu, Gheorghe Cârţină, Cecilia Barbulescu, *Optimal Operation of a Hydro Cascade using Typical Loading Profiles*, International Journal of Academic Research, vol. 3, no. 2, pp. 58 – 63, 2011, ISSN: 2075-4124, (IndexCopernicus)
	R36 Gheorghe Grigoraş, Istrate Marcel, *An Efficient Clustering Method in Evaluation of the Electric Energy Consumption from Water Hydrophore Stations*, International Review on Modelling and Simulations, Vol. 4, no. 2, 2011, pp. 813–818, ISSN: 1974-9821 (SCOPUS)
	R37 Gheorghe Grigoraş, Cecilia Barbulescu, Gheorghe Cârţină, Daniela Comanescu, *A Comparative Study Regarding Efficiency of the Hierarchical Clustering Techniques in Typical Load Profiles Determination*, Acta Electrotehnica, vol. 52, no. 5, pp. 184 – 188, 2011, ISSN 2344–5637 (DOAJ, VINITI), cod CNCSIS: 576.
	R38 Cecilia Bărbulescu, **Gheorghe Grigoraş**, Gheorghe Cârţină, Florina Rotaru, *Study Based on Clustering Techniques Regarding Accidental Events from The South-East of the Transport System from Romania*, Acta Electrotehnica, vol. 52, no. 5, pp. 46 – 49, 2011, ISSN 2344–5637, (DOAJ, VINITI), cod CNCSIS: 576.
	R39 Gheorghe Grigoraş, Gheorghe Cârţină, Marcel Istrate, Florina Rotaru, *The Efficiency of the Clustering Techniques in the Energy Losses Evaluation from Distribution Networks*, International Journal of Mathematical Models and Methods in Applied Sciences, vol. 5, no. 1, pp. 133 – 140, 2011, ISSN: 1998-0140 (SCOPUS)
	R40 Gheorghe Grigoraş, Daniela Comanescu, Florina Rotaru, Gheorghe Cârţină, *Using of a Hybrid Method in the Loading Profiles Determination of a Hydropower Cascade*, Buletinul Institului Politehnic din Iasi, Seria Electrotehncica, Energetica, Tomul LVII(LXI), No. 2, pp. 117 – 128, 2011, ISSN 1223-8139, (IndexCopernicus), cod CNCSIS: 87.
	R41 Gheorghe Grigoraş, Gheorghe Cârţină, *Strategies Regarding Operating Voltage Levels in Distribution Networks*, Journal of Energy and Power Engineering, vol. 4, No.6, pp. 60 – 63, 2010, ISSN: 1934-8975 (CSA)
	R42 Gheorghe Grigoraş, Cecilia Bărbulescu, Gheorghe Cârţină, Florina Rotaru, *Accidental Incidents Duration Analysis in Power Transmission Grids*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică Tomul LVI (LX), Fasc. 2, pp. 107 – 115, 2010, ISSN 1223-8139, (IndexCopernicus), cod CNCSIS: 87.
	R43 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguţa Bobric, *Opportunities to conserve energy right from distribution installations*, Buletinul U.P.B, Series C, Vol. 72, No. 1, pp. 81 – 90, 2010, ISSN (print): 2286-3540 (SCOPUS).
	R44 Gheorghe Grigoraş, Gheorghe Cârţină, *Energy Losses Evaluation using a Method based on Clustering and Fuzzy Techniques*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul LVI (LX), Fasc. 3, pp. 95 – 100, 2010, ISSN 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R45 Gheorghe Grigoraş, Elena-Crenguţa Bobric, Gheorghe Cârţină, Florina Rotaru,*Strategies for minimization of power losses in electric distribution networks*, Energetica, Nr. 7, pp. 314 - 318, 2010, ISSN: 1453-2360, (IndexCopernicus), cod CNCSIS: 512.
	R46 Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *On Power Flow Problem of Distribution Networks Under Condition of Lack Of Information*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul LVI (LX), Fasc. 2, pp. 77 – 87, 2010, ISSN 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R47 Gheorghe Grigoraş, Cecilia Bărbulescu, Gheorghe Cârţină, *Incident Duration Analysis in Power Transmission Grids by Clustering Techniques*, Energetica, Nr. 10, pp. 474 – 478, 2010, ISSN: 1453-2360, (IndexCopernicus), cod CNCSIS: 512.
	R48 Gheorghe Grigoraş, Gheorghe Cârţină, Virgil Alexandrescu, An Improved Method for Power Losses Determination in Rural Distribution Networks, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LIV (LVIII), Fasc. 3, pp. 23 – 30, 2008, ISSN 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R49 Gheorghe Grigoraş, Gheorghe Cârţină, Elena-Crenguţa Bobric, *Possibilities for Energy Saving in Electric Distribution Networks*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LIV (LVIII), Fasc. 3, pp. 211 – 220, 2008, ISSN 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R50 Gheorghe Grigoraş, Gheorghe Cârţină, *Energy Saving by Efficient Transformers in Distribution Networks*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LIV (LVIII), Fasc. 2, pp. 83 – 88, 2008, ISSN 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R51 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Optimal Reconfiguration of Distribution Networks in Uncertainty Conditions*, Buletinul Stiintific al UPB, Seria: Inginerie Electrica, nr. 4, pp. 247 – 254, 2007, ISSN (print): 2286-3540 (SCOPUS)

	R52 Gheorghe Grigoraş, Gheorghe Cârţină, Virgil Alexandrescu, *Geographic Information System (GIS) – An Integrated Technology for Distribution Systems*, Buletinul Stiintific al UPB, Seria: Inginerie Electrica, nr. 4, pp. 255 – 262, 2007, ISSN (print): 2286-3540 (SCOPUS).
	R53 Anca Mihaescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Next Generation Networks In Communications Trends*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LIV (LVIII), Fascicula 3-4, pp. 111-120, 2007, ISSN 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R54 Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Nouvelle Méthodologie d'Application des Modèles Statique de la Charge Asynchrone á l'étude de la Stabilité de Tension des Réseaux électriques*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LIII (LVII), Fasc. 1 - 2, pp. 127 – 132, 2007, ISSN 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R55 Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Integrated Software Application for the management of Databases Containing Static and Dynamic Models of the Aggregated Loads from Distribution Network and Their Use in Static and Dynamic Networks*, Analele Universităţii din Craiova, Seria: Inginerie Electrica, vol. II, pp. 323 – 326, 2007, ISSN : 1842-4805 (IndexCopernicus), cod CNCSIS: 174.
	R56 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguţa Bobric, *Power System Analysis using Matlab Toolboxes*, Analele Universitatii din Craiova, Seria: Inginerie Electrica, vol. II, pp. 305 – 308, 2007, ISSN :1842-4805 (IndexCopernicus), cod CNCSIS:174.
	R57 Gheorghe Cârţină, **Gheorghe Grigoraş**, Carmen Lupaşcu C., *Modeling of the Customers' Consumption Categories in Electric Distribution Systems*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Fasc. 5C, pp. 1175 – 1180, 2006, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R58 Gheorghe Grigoraş, Gheorghe Cârţină, Virgil Alexandrescu, Carmen Lupaşcu, *Fuzzy Load Models and GIS Documents in Distribution Networks Analysis*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Fasc. 5C, pp. 1199 – 1204, 2006, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R59 Carmen Lupaşcu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Optimal Reconfiguration of the Distribution Networks using Clustering Techniques and Fuzzy Load Models*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Fasc. 5C, pp. 1205 – 1210, 2006, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R60 Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Static Load Models of the Induction Motors*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Fasc. 5C, pp. 1579 – 1583, 2006, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R61 Mihai Gavrilaş, Gheorghe Cârţină, **Gheorghe Grigoraş**, Ovidiu Ivanov, Carmen Lupaşcu, *Integrated model for electric load profiling*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Fasc. 5C, pp. 1193 – 1198, 2006, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R62 Gheorghe Grigoraş, Cârţină G., *Using of Fuzzy Typical Load Profiles in Missing Data Treatment*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Tomul LII (LVI), Fasc. 3-4, pp. 139 – 145, 2006, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R63 Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Nouvelle Méthode pour Déterminer les Modeles Statiques de la Charge Asynchrone Agrégé*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul LII (LVI), Fasc. 3-4, pp. 119 – 128, 2006, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R64 Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Analiza nodală Dimo în pregătirea viitorilor ingineri electronergiticieni*, Energetica, Nr. 9, pp. 354 – 358, 2005, ISSN: 1453-2360 (IndexCopernicus)**,** cod CNCSIS: 512.
	R65 Gheorghe Grigoraş, Gheorghe Cârţină, *Improvement of the Loads Estimation with the Clustering Techniques*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul LI (LV), Fasc. 1 - 2, pp. 131 – 136, 2005. ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R66 Gheorghe Cârţină**, Gheorghe Grigoraş,** *Determinarea benzilor optimale de reglare a tensiunii în reţelele electrice,* Energetica, vol. 52, Nr. 11, pp. 487 -491, 2004, ISSN: 1453-2360, (IndexCopernicus), cod CNCSIS: 512.
	R67 Gheorghe Grigoraş, Gheorghe Cârţină, Virgil Alexandrescu, *Pay as Bid Approach in Energy Market*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul LI (LV), Fasc. 3 - 4, pp. 125 – 130, 2005, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.

	R68 **Gheorghe Grigoraş**, Gheorghe Cârţină, Virgil Alexandrescu, *Using Fuzzy Logic in Distribution Network Power Loss Estimation*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul L(LIV), Fasc. 5A, pp.157 – 162, 2004, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R69 **Gheorghe Grigoraş**, Gheorghe Cârţină, *Using of the Clustering Techniques in Load Profiles Determination*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul L(LIV), Fasc. 3 - 4, pp. 121 -127, 2004, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R70 **Gheorghe Grigoraş**, Gheorghe Cârţină, *Load uncertainties introduction in power flow analysis*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLIX (LIII), Fasc. 1-2, pp. 121 – 126, 2003, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R71 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Bidding Strategies in deregulated markets*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLIX(LIII), Fasc. 3/4, pp 133 – 141, 2003, ISSN 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R72 Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, *Utilizarea tehnicilor GIS (Geographic Information Systems) în planificarea reţelelor electrice*, Energetica, vol, 51, Nr. 8, pp.346-349, 2003, ISSN: 1453-2360 (IndexCopernicus), cod CNCSIS: 512.
	R73 Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *On the Local Voltage Stability Static Analysis*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLIX(LIII), Fasc. 3/4, pp. 127-131, 2003, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R74 **Gheorghe Grigoraş**, Gheorghe Cârţină, Moshe M., *Using of the Increasing Factors Method in Distribution Networks Planning*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLVIII LII), Fasc. 3-4, pp.173 – 179, 2002, ISSN 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R75 Virgil Alexandrescu, **Gheorghe Grigoraş**, Alocarea costurilor serviciului de transport de energie pe noduri de rețea, ținând seama de circulația puterilor reactive, Energetica, vol. 50, Nr. 10, pp. 438-446, 2002, ISSN: 1453-2360 (IndexCopernicus), cod CNCSIS: 512.
	R76 Gheorghe Cârţină, **Gheorghe Grigoraş**, Mariana Moshe, *Using of the Power Correlation in Distribution Networks Planning*, Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLVIII(LII), Fasc. 1-2, pp. 149-157, 2002, ISSN : 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R77 Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, *Application of the Powers Correlation in Fuzzy Modeling*, Bul. Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Fascicula 5A, pp. 297 – 302, 2002, ISSN 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	R78 **Gheorghe Grigoraş**, Gheorghe Cârţină, *Electric Network Planning Aspects with Special Regard to Reliability*, Bul. Buletinul Institutului Politehnic Iaşi, Seria: Electrotehnică, Energetică, Electronică, Tomul XLVII(LI), Fasc. 3-4, pp.127-134, 2001, ISSN 1223-8139 (IndexCopernicus), cod CNCSIS: 87.
	Articol/studiu publicat în revistă de specialitate neindexată în baze de date
	R79 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguța Bobric, *Clustering Techniques in Load Analyse*, Buletinul Stiintific al Univ. "Politehnica" din Timisoara, Seria Energetica, Tomul 50(64), Fascicola 1-2, pp. 123 – 130, 2005, ISSN: 1582-7194.
	R80 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguța Bobric, *Using of the Clustering Techniques in Representative Distribution Feeders Choosing*, Buletinul Stiintific al Univ. "Politehnica" din Timișoara, Seria Energetica, Tomul 50(64), Fascicola 1-2, pp. 131 – 134, 2005, ISSN: 1582-7194.
	R81 Gheorghe Grigoraş, Gheorghe Cârţină, Elena-Crenguța Bobric, *Missing Values Estimation of the Load in Electrical Stations*, Buletinul Stiintific al Univ. "Politehnica" din Timișoara, Seria Energetica, Tomul 50(64), Fascicola 1-2, pp. 265 – 268, 2005, ISSN: 1582-7194.
	R82 Yona Schweitzer, **Gheorghe Grigoraş**, Gheorghe Cârţină, *Aspects of NOx in Coal Combustion*, Buletinul Stiintific al Univ. "Politehnica" din Timisoara, Seria Energetica, Tomul 50(64), Fascicola 1-2, pp. 507 – 514, 2005, ISSN: 1582-7194.
	R83 Yona Schweitzer, **Gheorghe Grigoraş**, Gheorghe Cârţină, Coal Blending and NOx Emissions, Buletinul Stiintific al Univ. "Politehnica" din Timisoara, Seria Energetica, Tomul 50(64), Fascicola 1-2, pp. 515 – 522, 2005, ISSN: 1582-7194.
	R84 Gheorghe Cârţină, **Gheorghe Grigoraş**, Ovidiu Dumitrescu, *Strategii optimale în pieţe deregulate*, Prod. Transp. şi Distrib. Energ. Electrice şi Termice, nr. 10, 2004, ISSN 1224-1113 – până în 2006 și ISSN 1842-7189 din 2007.
	R85 Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, *An Interior Point Method to Solve Optimal Unit Commitment problems*, Buletinul Stiintific al Univ. "Politehnica" din Timisoara, Seria Energetica, Fascicola 1-2, 2003, pp. 123 – 128. ISSN: 1582-7194

	R86 Gheorghe Cârţină, **Gheorghe Grigoraş**, Ovidiu Dumitrescu, *Optimal Stategies in Deregulated Markets*, Buletinul Stiintific al Univ. "Politehnica" din Timisoara, Seria Energetica, Fascicola 1-2, pp. 129 – 134, 2003, ISSN: 1582-7194
	R87 **Gheorghe Grigoraş**, Gheorghe Cârţină, *Deregulated Market Simulation in Educational Process*, Buletinul Stiintific al Univ. "Politehnica" din Timisoara, Seria Energetica, Fascicola 1-2, pp. 263 – 268, 2003, ISSN: 1582-7194
	R88 **Gheorghe Grigoraş**, Gheorghe Cârţină, *Power plant loading optimization using inferior point method*, Analele Universităţii din Oradea, Fascicola de Energetică, Nr. 9, pp. 220 – 225, 2003, (1993 – 2009 ISSN: 1224-1261, din 2010 ISSN: 2067-5534)
	R89 Gheorghe Cârţină, **Gheorghe Grigoraş**, Dumitrescu O., *Unit commitment in combined heat and power plants*, Analele Universităţii din Oradea, Fascicola de Energetică, Nr. 9, pp. 214 – 219, 2003, ISSN: 1224 – 1261. (1993 – 2009 ISSN: 1224-1261, din 2010 ISSN: 2067-5534)
	R90 Gheorghe Cârţină, **Gheorghe Grigoraş**, Competition simulation in energy markets, Analele Universităţii din Oradea, Fascicola de Energetică, Nr. 9, pp. 282 – 287, 2003, (1993 – 2009 ISSN: 1224-1261, din 2010 ISSN: 2067-5534)
	R91 Mariana Moise, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Planificarea rezervei/încărcării staţiilor de transformare*, Analele Universităţii din Oradea, Fascicola de Energetică, Nr. 8, Vol. II, pp 347 – 353, 2002 (1993 – 2009 ISSN: 1224-1261, din 2010 ISSN: 2067-5534)
	R92 **Gheorghe Grigoraş**, Daniela Rădăşanu, Gheorghe Cârţină, *Compararea variantelor de dezvoltare în condiţii de incertitudine*, Analele Universităţii din Oradea, Fascicola de Energetică, Nr. 8, Vol. II, pp. 354 – 360, 2002 (1993 – 2009 ISSN: 1224-1261, din 2010 ISSN: 2067-5534)
	R93 Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Using Fuzzy Models in Distribution Network Monitoring and Control*, Modelling and Optimization in the Machines Building Field, Vol.1, pp. 236 – 241, 2001, ISSN: 1224 – 7480
	R93 Gheorghe Cârţină, Gheorghe Grigoraş, *Some Aspects Concerning Multicriterion Optimization in Uncertainty Conditions*, Modelling and Optimization in the Machines Building Field, Vol.1, pp. 248 – 253, 2001, ISSN: 1224 – 7480.
	R94 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Interactive Method for Optimization of the Network Structure*, Buletinul Stiintific al Univ. "Politehnica" din Timisoara, Seria Energetica, Fascicola 1-2, pp. 65-68, 2001, ISSN: 1582-7194.
	R95 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Active and Reactive Power Correlation in Fuzzy Modeling*, Buletinul Stiintific al Univ. "Politehnica" din Timisoara, Seria Energetica, Fascicola 1-2, pp. 69-72, 2001, ISSN: 1582-7194
V	**Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)**
	V1 Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, *An Efficient Metaheuristic Algorithm for Optimal Capacitor Allocation in Electric Distribution Networks*, 2017 2nd International Conference on Software, Multimedia and Communication Engineering (SMCE 2017), Shanghai, China, pp. 327- 332, 2017 (EI Compendex)
	V2 Gheorghe Grigoras, Bogdan-Constantin Neagu, Florina Scarlatache, Romeo Ciobanu, *Identification of pilot nodes for secondary voltage control using K-means clustering algorithm*, IEEE 26th International Symposium on Industrial Electronics (ISIE), Edinburgh, United Kingdom, pp. 106-110, 2017 (IEEE Xplore)
	V3 Gheorghe Grigoraș, Florina Scarlatache, Bogdan-Constantin Neagu, *Analysis of energy saving solutions based on replacement of distribution transformers*, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, pp. 66 – 71, 2017 (IEEE Xplore)
	V4 Gheorghe Grigoraș, Florina Scarlatache, Daniela Comanescu, Bogdan-Constantin Neagu, *Expert system for optimal power allocation in hydropower dispatchable units*, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, pp. 605 – 610, 2017 (IEEE Xplore)
	V5 Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, Florina Scarlatache, *Effects of outliers on calculation of load profile factors*, 2017 International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2017 (IEEE Xplore)
	V6 Bogdan-Constantin Neagu, **Gheorghe Grigoraş**, Florina Scarlatache, Cristina Schreiner, Romeo Ciobanu, *Patterns discovery of load curves characteristics using clustering based data* mining, 2017 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 83 – 87, 2017 (IEEE Xplore)
	V7 Florina Scarlatache, **Gheorghe Grigoraş**, Bogdan-Constantin Neagu, Cristina Schreiner, Romeo Ciobanu, *Influence of hybrid energy systems on micro-grids control*, 2017 11th IEEE

	International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, pp. 313 – 317, 2017 (IEEE Xplore)
	V8 Bogdan-Constantin Neagu, **Gheorghe Grigoraş**, Florina Scarlatache, *Outliers discovery from Smart Meters data using a statistical based data mining approach*, 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 555 - 558, 2017 (IEEE Xplore)
	V9 Gheorghe Grigoraș, Bogdan-Constantin Neagu, Florina Scarlatache, *Smart metering based approach for phase balancing in low voltage distribution systems*, 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 551 - 554, 2017 (IEEE Xplore)
	V10 Florina Scarlatache, **Gheorghe Grigoraș**, *A fuzzy approach in optimal DG planning*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 738 – 742, 2016 (IEEE Xplore)
	V11 Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, Florina Scarlatache, *Power losses estimation in harmonic polluted LV distribution networks with a fuzzy approach*, 2016 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 2016 (IEEE Xplore)
	V12 Florina Scarlatache, **Gheorghe Grigoraș**, Bogdan-Constantin Neagu, *Decision making methodology based on fuzzy logic in optimal DG location*, 2016 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 2016 (IEEE Xplore)
	V13 Gheorghe Grigoraş, Bogdan Constantin Neagu, Florina Scarlatache, *Estimation of energy losses in distribution transformers using a fuzzy approach*, 2016 International Symposium on Fundamentals of Electrical Engineering (ISFEE), București, Romania, 2016 (IEEE Xplore).
	V14 Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, Florina Scarlatache, *The influence of harmonics on power losses in urban distribution networks*, 016 International Symposium on Fundamentals of Electrical Engineering (ISFEE), București, Romania, 2016 (IEEE Xplore).
	V15 Gheorghe Grigoraş, Mihai Gavrilaş, *Phase swapping of lateral branches from low-voltage distribution networks for load balancing*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 715 – 718, 2016 (IEEE Xplore)
	V16 Avishek Banerjee, Mihai Gavrilaș, **Gheorghe Grigoraș**, Samiran Chattopadhyay, *A fuzzy hybrid approach for reliability optimization problem in power distribution systems*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 809 – 814, 2016 (IEEE Xplore)
	V17 Avishek Banerje, Samiran Chattopadhyay, Anup Kumar Mukhopadhyay, **Gheorghe Grigoraș**, *A fuzzy-ACO algorithm to enhance reliability optimization through energy harvesting in WSN*, 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), Chennai, India, pp. 584 – 589, 2016 (IEEE Xplore)
	V18 Avishek Banerjee, Mihai Gavrilaș, **Gheorghe Grigoraș**, Samiran Chattopadhyay, *Decision making in assessment of RRAP of WSN using fuzzy-hybrid approach*, 2015 IEEE International Conference on Advanced Networks and Telecommuncations Systems (ANTS), Kolkata, India, 2015 (IEEE Xplore).
	V19 Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, *Assessment of slow voltage variations from the electric distribution systems with fuzzy techniques*, 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), București, Romania, pp. 61 – 66, 2015 (IEEE Xplore).
	V20 Florina Scarlatache, **Gheorghe Grigoraș**, *Placement of DG sources using a clustering based partitioning method in distribution systems*, 2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 868 – 872, 2015, (IEEE Xplore).
	V21 Gheorghe Grigoraș, Florina Scarlatache, *Processing of smart meters data for peak load estimation of consumers*, 2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 864 – 867, 2015, (IEEE Xplore).
	V22 Gheorghe Grigoraș, Ovidiu Ivanov, Mihai Gavrilas, *Customer classification and load profiling using data from Smart Meters*, 12th Symposium on Neural Network Applications in Electrical Engineering (NEUREL), Belgrad, Serbia, pp. 73-78, 2014, (IEEE Xplore).
	V23 Florina Scarlatache, **Gheorghe Grigoraș**, *Influence of wind power plants on power systems operation*, 2014 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 1010-1014, 2014 (IEEE Xplore).
	V24 Gheorghe Grigoraș, Florina Scarlatache, *Knowlegde extraction from Smart Meters for consumer classification*, 2014 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, pp. 978-982, 2014 (IEEE Xplore).
	V25 Gheorghe Grigoraş, Florina Scarlatache, *Use of data from smart meters in optimal operation of distribution systems*, 2014 International Conference on Optimization of Electrical and Electronic

	Equipment (OPTIM), Brasov, Romania, pp. 179 – 184, 2014, (IEEE Xplore).
	V26 Florina Scarlatache, **Gheorghe Grigoraş**, *Optimal coordination of wind and hydro power plants in power systems*, 2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Brasov, Romania, pp. 689 – 694, 2014, (IEEE Xplore).
	V27 Alexandru Kriukov, **Gheorghe Grigoraș**, Mihai Gavrilaș, Florina Scarlatache, Bogdan-Constantin Neagu, *An analyze of slow voltage variations from the electric distribution systems with a clustering based approach*, 2014 16th International Conference on Harmonics and Quality of Power (ICHQP), București, Romania, pp. 689 – 693, 2014, (IEEE Xplore).
	V28 Alexandru Kriukov, **Gheorghe Grigoraș**, Florina Scarlatache, Ovidiu Ivanov, Bogdan Vicol, *Use of fuzzy techniques in reliability assessment of electric distribution systems,* 2014 16th International Conference on Harmonics and Quality of Power (ICHQP), București, Romania, pp. 29 – 33, 2014, (IEEE Xplore).
	V29 Bogdan Vicol, Mihai Gavrilaş, Ovidiu Ivanov, Bogdan-Constantin Neagu, **Gheorghe Grigoraș**, *Synchrophasor measurement method for overhead line parameters estimation in MV distribution networks*, 2014 16th International Conference on Harmonics and Quality of Power (ICHQP), București, Romania, pp. 862 – 865, 2014, (IEEE Xplore).
	V30 Gheorghe Grigoraș, Marcel Istrate, Florina Scarlatache*, Electrical energy consumption estimation in water distribution systems using a clustering based method*, International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitești, Romania, pp. 1 -6, 2013, (IEEE Xplore).
	V31 Florina Scarlatache, **Gheorghe Grigoraș**, *The influence of the DG sources in the optimal operation of the electrical distribution systems*, 2013 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 1 -4, 2013, (IEEE Xplore).
	V32 Gheorghe Grigoraș, Florina Scarlatache, *Energy losses estimation in electrical distribution networks with a decision trees-based algorithm*, 2013 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, Romania, pp. 1 -4, 2013, (IEEE Xplore).
	V33 Florina Scarlatache, **Gheorghe Grigoraş**, Gheorghe Cârţină, Gianfranco Chicco, *A comparative study regarding the optimal placement of the DG sources*, 2012 International Conference and Exposition on Electrical and Power Engineering, Iasi, Romania, pp. 231 – 236, 2012, (IEEE Xplore).
	V34 Gheorghe Grigoraș, Virgil Alexandrescu, Gheorghe Cârțină, *A calculation method of power and energy losses in distribution networks*, 2012 International Conference and Exposition on Electrical and Power Engineering, Iasi, Romania, pp. 197 – 200, 2012, (IEEE Xplore).
	V35 Gheorghe Grigoraş, Florina Scarlatache, Gheorghe Cârţină, *Load estimation for distribution systems using clustering techniques*, 2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Brașov, Romania, pp. 301 – 306, 2012, (IEEE Xplore).
	V36 Florina Scarlatache, **Gheorghe Grigoraş**, Gianfranco Chicco, Gheorghe Cârţină*, Using k-means clustering method in determination of the optimal placement of distributed generation sources in electrical distribution systems*, 2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Brașov, Romania, pp. 953 – 958, 2012, (IEEE Xplore).
	V37 Daniela Comanescu, **Gheorghe Grigoraș**, Gheorghe Cârțină, Florina Rotaru, *Determination of typical load profiles in hydro-power plant by clustering techniques*, 2010 12th International Conference on Optimization of Electrical and Electronic Equipment, Brașov, Romania, pp. 1294 – 1297, 2010, (IEEE Xplore).
	V38 Gheorghe Grigoraș, Gheorghe Cârțină, Elena-Crenguta Bobric, Florina Rotaru, *Evaluation of the performances of efficient transformers in distribution networks by fuzzy techniques*, 2010 12th International Conference on Optimization of Electrical and Electronic Equipment, Brașov, Romania, pp. 1281 – 1284, 2010, (IEEE Xplore).
	V39 Gheorghe Grigoraș, Gheorghe Cârțină, Elena Crenguța Bobric, *An improved fuzzy method for energy losses evaluation in distribution networks*, 15th IEEE Mediterranean Electrotechnical Conference (MELECON), Valletta, Malta, pp. 131 – 135, 2010, (IEEE Xplore).
	V40 Gheorghe Cârțină, **Gheorghe Grigoraș**, Elena Crenguța Bobric, Daniela Comanescu, *Improved fuzzy load models by clustering techniques in optimal planning of distribution networks*, 2009 IEEE Bucharest PowerTech, București, Romania, pp. 1 – 6, 2009, (IEEE Xplore).
	V41 Gheorghe Cârțină, **Gheorghe Grigoraș**, Elena Crenguța Bobric, *Clustering techniques for energy losses evaluation in distribution* networks, 2009 IEEE Bucharest PowerTech, București, Romania, pp. 1 – 5, 2009, (IEEE Xplore).
	V42 Gheorghe Grigoraș, Gheorghe Cârțină, Elena Crenguța Bobric, Cecilia Barbulescu, *Missing data treatment of the load profiles in distribution networks*, 2009 IEEE Bucharest PowerTech, București, Romania, pp. 1 – 5, 2009, (IEEE Xplore).

	V43 Gheorghe Grigoraş, Cârţină Gheorghe, Mihai Gavrilaş, *Using of Clustering Techniques in Optimal Placement of Phasor Measurements Units*, Conference: 9th WSEAS/IASME International Conference on Electric Power Systems, High Voltages, Electric Machines (POWER '09), Genoa, Italia, pp. 104-108, 2009, (Scopus)
	V44 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Determination of the Customers Consumption Categories using Clustering Techniques*, 30th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO'07, Gliwice-Ustron, Polonia, pp. 231 – 232, 2007 (INSPEC).
	V45 Gheorghe Grigoraş, Gheorghe Cârţină, Virgil Alexandrescu, *Analysis of the Electric Distribution Networks using Geographic Information System (GIS) Technology*, 30th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO'07, Gliwice-Ustron, Polonia, pp. 111 – 112, 2007 (INSPEC).
	V46 Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Software Application to Elaborate Static and Dynamic Load Models for Different Categories of Electric Consumers*, 30th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO'07, 2007, Gliwice-Ustron, Polonia, pp. 225 – 226, 2007 (INSPEC).
	V47 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguța Bobric, Using of the fuzzy logic for voltage control in distribution networks, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, vol. 2, pp. 319 - 322, 2003, (INSPEC).
	V48 Gheorghe Cârţină, **Gheorghe Grigoraş**, Ovidiu Dumitrescu, Pavel Atanasoae, *Optimal commitment of equipments in combined heat and power plants*, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, vol. 2, pp. 331 - 334, 2003, (INSPEC).
	V49 **Gheorghe Grigoraş**, Gheorghe Cârţină, *Load flow analysis in distribution system using fuzzy powers correlation models*, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, vol. 2, pp. 323 - 326, 2003, (INSPEC).
	V50 Ovidiu Dumitrescu, Pavel Atanasoae, Gheorghe Cârţină, **Gheorghe Grigoraş**, *The influence of equipments modernization on the consumption characteristics in power plants*, 26th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2003, Gliwice-Niedzika, Poland, Vol. 2, pp. 327 - 330, 2003, (INSPEC).
	V51 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Fuzzy Modeling in Distribution Systems*, 25th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2002, Gliwice-Ustron, Poland, vol. 2, pp. 249 - 252, 2002, (INSPEC).
	V52 **Gheorghe Grigoraş**, Gheorghe Cârţină, *Time Influence in Reliability Factors Evaluation*, 25th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2002, Gliwice-Ustron, Poland, vol. 2, pp. 353 - 356, 2002 (INSPEC).
	V53 Elena-Crenguța Bobric, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Fuzzy-Based Voltage/Reactive Power Control in Power Systems*, 25th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2002, Gliwice-Ustron, Poland, vol.2, pp. 431 - 434, 2002, (INSPEC).
	V54 Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, Mariana Moshe, Peak load estimation in distribution networks by fuzzy regression approach, 2000 10th Mediterranean Electrotechnical Conference. Information Technology and Electrotechnology for the Mediterranean Countries (MeleCon 2000) vol. 3, pp. 907 – 910, 2000, (IEEE Xplore).
	Articol/studiu publicat în volumul unei manifestări ştiinţifice neindexate în baze de date
	V55 Gheorghe Grigoraş, Bogdan-Constantin Neagu, Alexandra Adăscăliței, *On the Assessment of Slow Voltage Variations in Electric Distribution Networks using K-Means Clustering Algorithm*, 2nd IMEKO TC4 International Symposium & 20th International Workshop on ADC Modelling and Testing, Iași, Romania, September 14-15, 2017.
	V56 Bogdan-Constantin Neagu, , *Detection of Irregular Consumption to Load Monitoring in Smart Grids*, 2nd IMEKO TC4 International Symposium & 20th International Workshop on ADC Modelling and Testing, Iași, Romania, September 14-15, 2017.
	V57 Florina Scarlatache, **Gheorghe Grigoraş,** Bogdan-Constantin Neagu, Clustering Based Data Mining in Wind Power Production, ECAI 2017 - International Conference – 9th Edition Electronics, Computers and Artificial Intelligence, 29 June -01 July, 2017, Targoviste, Romania.
	V58 Gheorghe Grigoraş, Cecilia Bărbulescu, *Decision making under uncertainty in development planning of power grid*, International Conference on Condition Monitoring, Diagnosis and Maintenance 2015, CMDM 2015 (3rd edition), București, Romania, 2015.
	V59 Gheorghe Grigoraş, Florina Scarlatache, *Posibilități privind estimarea pierderilor de energie în rețelele electrice de distribuție folosind tehnici fuzzy*, Simpozionul Național "Sisteme Inteligente

	în Electroenergetică" – SIE 2014, Galați, Romania, 2014**.**
	V60 Cecilia Bărbulescu, **Gheorghe Grigoraş**, Florina Scarlatache, Analysis of the Electricity Generation Potential by Renewable Source in Romanian Power System, WEC Central & Eastern Europe Regional Energy Forum – FOREN 2014, București, Romania, 2014.
	V61 Gheorghe Grigoraş, Cecilia Bărbulescu, Florina Scarlatache, *A Data Mining Techniques Based Approach for Identify of Electricity Generation Potential by Renewable Sources in Romanian Power System*, CIGRÉ Regional South-East European Conference RSEEC 2014 (2nd edition), Timisoara, Romania, 2014.
	V62 Gheorghe Grigoraş, Elena Crenguța Bobric, *Clustering Based Approach for Customers' Classification from Electrical Distribution Systems*, 6th International Conference on Energy and Environment, CIEM 2013, București, Romania, 2013.
	V63 Florina Scarlatache, Cecilia Barbulescu, **Gheorghe Grigoraş**, Gheorghe Cârțină, *Influence of Coordination between Distribution Generation Sources on Optimal Voltage Control*, International Conference on Condition Monitoring, Diagnosis and Maintenance - CMDM 2013, București, Romania, 2013.
	V64 Gheorghe Grigoraş, Cecilia Bărbulescu, Florina Scarlatache, *Clustering-based algorithm for optimal selection of pilot nodes in secondary voltage control*, International Conference on Condition Monitoring, Diagnosis and Maintenance - CMDM 2013, București, Romania, 2013.
	V65 Gheorghe Grigoraş, Cecilia Bărbulescu, Gheorghe Cârţină, Florina Rotaru, *Power Flow Ana lysis in Power Systems Using Fuzzy Correlation Models for the Nodal Loads*, WEC Central & Eastern Europe Energy Forum- FOREN 2012 , Neptun, România, 2012.
	V66 Cecilia Bărbulescu, **Gheorghe Grigoraş**, Gheorghe Cârțină, *An Approach based on Zoning of Electric Transmission System for Human Errors Monitoring*, WEC Central & Eastern Europe Energy Forum – FOREN, Neptun, România, 2012.
	V67 Gheorghe Grigoraş, Cecilia Bărbulescu, *Clustering-based algorithm in power system partitioning*, CIGRÉ Regional South-East European Conference, RSEEC 2012, Sibiu, Romania, 2012.
	V68 Florina Scarlatache, **Gheorghe Grigoraş**, Gheorghe Cârțină, *Algoritm de amplasare şi dimensionare optimă a surselor de generare distribuită bazat pe tehnici de clustering*, Simpozion Național "Sisteme inteligente în Electroenergetică" (SIE), Galati, Romania, 2012.
	V69 Daniela Comănescu, **Gheorghe Grigoraş**, Florina Scarlatache, *Efficient Operation Of The Hydropower Cascade Under Active Networks*, CIGRÉ Regional South-East European Conference, RSEEC 2012, Sibiu, Romania, 2012.
	V70 Gheorghe Grigoraş, Cecilia Barbulescu, Florina Rotaru, Gheorghe Cartina, *Using of the Fuzzy Correlation in Load Estimation of Power Stations*, 8th International Conference on Industrial Power Engineering, Bacău, Romania, pp. 31 – 35, 2011.
	V71 Florina Rotaru, **Gheorghe Grigoraş**, Daniela Comanescu, Gheorghe Cartina, *Economic Efficiency of the Solutions for the Renewals/Reinforcements on Distribution Networks*, 8th International Conference on Industrial Power Engineering, Bacău, Romania, pp. 103 – 108, 2011.
	V72 Gheorghe Grigoraş, Cecilia Bărbulescu, Gheorghe Cartina, *Power flow analysis in electric networks under conditions of missing data*, International Conference on Condition Monitoring, Diagnosis and Maintenance, București, Romania, September 19-23, 2011.
	V73 Daniela Comănescu, **Gheorghe Grigoraş**, Florina Rotaru, *Creşterea aportului surselor de generare distribuită în SEN şi impactul asupra funcţionării centralelor hidroelectrice*, Conferinţa Naţională şi Expoziţia de Energetică, Sinaia, 26-28 Octombrie, 2011.
	V74 Cecilia Bărbulescu, **Gheorghe Grigoraş**, Gheorghe Cârţină, Elena-Crenguţa Bobric, Analysis of Accidental Events in Power Transmission Grids by Clustering Techniques, WEC Central & Eastern Europe Energy Forum – FOREN, Neptun, România, 2010.
	V75 Daniela Comanescu, Constantin Sarsaniuc, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Soluţii de alegere a transformatoarelor. Modalităţi de Reducere a Consumurilor în centralele hidroelectrice*, WEC Central & Eastern Europe Energy Forum – FOREN, Neptun, România, 2010.
	V76 Gheorghe Grigoraş, Gheorghe Cârţină, Elena- Crenguța Bobric, *Optimal Placement of Phasor Measurements Units in Power Systems*, Simpozionul International de Sisteme Inteligente in Electroenergetica, SIE'10, Galati, Romania, 2010.
	V77 Florina Rotaru, **Gheorghe Grigoraş**, Gheorghe Cârţină, *Implementing a Development Strategy of Electric Distribution Networks*, Simpozionul International de Sisteme Inteligente in Electroenergetica, SIE'10, Galati, Romania, 2010.
	V78 Cecilia Bărbulescu, **Gheorghe Grigoraş**, Gheorghe Cârţină, *A New Approach Regarding to Analysis of Accidental Events in Electrical Transmission Systems*, Simpozionul International de Sisteme Inteligente in Electroenergetica, SIE'10, Galati, Romania, 2010.
	V79 Gheorghe Grigoraş, Gheorghe Cârţină, Elena-Crenguța Bobric, *Comparison of Methods for Filling Missing Data*, Proc. of the 32th International Conference on Fundamentals of

	Electrotechnics and Circuit Theory, IC-SPETO'09, Gliwice-Ustron, Polonia, 2009.
	V80 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena Crenguța Bobric, *Smart Grid Challenges in Distribution Systems*, *Proc. of the 32th International Conference on Fundamentals of Electrotechnics and Circuit Theory*, IC-SPETO'09, Gliwice-Ustron, Polonia, 2009.
	V81 Costea, L.C., Gheorghe Cârţină, **Gheorghe Grigoraş**, *Chosing of the Efficint Investment Solutions in Electrical Networks*, Proc. of the 32th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO'09, Gliwice-Ustron, Polonia, 2009.
	V82 Gheorghe Grigoraş, **Gheorghe Cârţină**, Elena-Crenguța Bobric, *Marginal Clearing Price Auction In Energy Markets*, Conferința Internațională de Sisteme Electromecanice și Energetice (SIELMEN 2009), Chisinau, Republica Moldova, 2009.
	V83 Gheorghe Cârţină, Gheorghe Grigoraș**,** *Energy losses evaluation using an improved fuzzy method*, Conferința Internațională de Sisteme Electromecanice și Energetice (SIELMEN 2009), Chisinau, Republica Moldova, 2009.
	V84 Gheorghe Cârţină, **Gheorghe Grigoraş**, Bobric E.C., *Challenges and Opportunities for Distribution Systems*, International Conference on ENERGY and ENVIRONMENT (CIEM 2009), Bucuresti, Romania, 2009.
	V85 Gheorghe Grigoraş, Gheorghe Cârţină, Costea C., Dragoș Machidon, *Strategies regarding operating voltage levels in distribution networks*, International Conference on ENERGY and ENVIRONMENT (CIEM 2009), Bucuresti, Romania, 2009.
	V86 Daniela Comanescu, Gheorghe Cârţină, **Gheorghe Grigoraş,** *Possibility for reducing intern consumption in hydro power plant*, International Conference on ENERGY and ENVIRONMENT (CIEM 2009), Bucuresti, Romania, 2009.
	V87 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-*Crenguța Bobric, Power/Energy Saving Potential Evaluation in Distribution Networks by Fuzzy Techniques*, International World Energy System Conference, WESC 2008, Iasi, Romania, 2008.
	V88 Gheorghe Cârţină, **Gheorghe Grigoraş**, Virgil Alexandrescu, *The Clustering Techniques in the Determination of the Power Losses in Radial Networks*, International World Energy System Conference, WESC 2008, Iasi, Romania, 2008.
	V89 Costea L.C., Gheorghe Cârţină, **Gheorghe Grigoraş**, *Optimal Investments in Electric Networks Based on Economic Analysis*, International World Energy System Conference, WESC 2008, Iasi, Romania, 2008.
	V90 Costea, L.C., Gheorghe Cârţină, **Gheorghe Grigoraş**, *Optimal Decisions in the Replacement of Old Distribution Transformers by Efficient Transformers in Distribution Networks*, International World Energy System Conference, WESC 2008, Iasi, Romania, 2008.
	V91 Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Software Application to Create and Manage Static Load Models to Improve Electric Network Analysis*, International World Energy System Conference, WESC 2008, Iasi, Romania, 2008.
	V92 Gheorghe Cârţină, **Gheorghe Grigoraş**., *Strategies for Renewal of Electric Distribution Networks*, Simpozionul International de Inteligenta Artificiala in Electroenergetica, SIAE'08, Galati, Romania, 2008.
	V93 Gheorghe Grigoraş, Gheorghe Cârţină, Elena-Crenguța Bobric, *Solutions for missing Data Treatment in Electric Distribution Systems*, Simpozionul International de Inteligenta Artificiala in Electroenergetica, SIAE'08, Galati, Romania, 2008.
	V94 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Optimal Reconfiguration of Distribution Networks in Uncertainty Conditions*, International Conference on Energy – Environment, CIEM'07, Bucureşti, România, 2007.
	V95 Gheorghe Grigoraş, Gheorghe Cârţină, Virgil Alexandrescu, *Geographic Information System (GIS) – An Integrated Technology for Distribution Systems*, International Conference on Energy – Environment, CIEM'07, Bucureşti, România, 2007.
	V96 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena Crenguța Bobric, *Power System Analysis using Matlab Toolboxes*, Proc. of the 6th International Conference on Electromechanical and Power Systems, SIELMEN'07, Chişinău, Rep. Moldova, 2007.
	V97 Virgil Alexandrescu, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Integrated Software Application for the management of Databases Containing Static and Dynamic Models of the Aggregated Loads from Distribution Network and Their Use in Static and Dynamic Networks*, International Conference on Electromechanical and Power Systems, SIELMEN'07, Chişinău, Rep. Moldova, 2007.
	V98 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguța Bobric, Carmen Lupaşcu, *Improving of Fuzzy Models by Clustering Techniques in Optimal Reconfiguration of the Distribution Networks*, International World Energy System Conference, WESC 2006, Torino, Italia, 2006, CD –ROM, ISBN-10: 88-87380-51-1.
	V99 Gheorghe Grigoraş, Gheorghe Cârţină, Elena-Crenguța Bobric, *Techniques for Treatment of the Missing Data in Load Profiles of the Electric Distribution Systems*, International World Energy

	System Conference, WESC 2006, Torino, Italia, 2006, CD –ROM, ISBN-10: 88-87380-51-1.
	V100 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguța Bobric, Carmen Lupaşcu, *Improving Techniques for Electric Networks Control*, 29th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2006, Gliwice-Niedzika, Polonia, vol. II, pp. 581 – 584, 2006.
	V101 Gheorghe Cârţină, **Gheorghe Grigoraş**, Carmen Lupaşcu, *Using of the Clustering Techniques in GIS Documents Processing for Distribution Systems*, WEC Regional Energy Forum – FOREN 2006, Neptun, Romania, 2006.
	V102 Gheorghe Cârţină, **Gheorghe Grigoraş**, Carmen Lupaşcu, *Le Rôle du GIS Dans la Problèmatique de L'environnement*, Colocviul Tehnic L'Amelioration Des Facteurs D'Environnement, Iași, Romania, pp. 17 – 22, 2006.
	V103 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguța Bobric, *Folosirea modelelor fuzzy a profilurilor de sarcină în supravegherea on-line a reglajului optimal tensiune-putere reactivă în reţelele electrice*, Simpozionul Internaţional "Sisteme de Inteligenţă Artificială în Electroenergetică", SIAE06, Galaţi, Romania, pp. 36 – 43, 2006.
	V104 Gheorghe Cârţină, Yona Schweiter, **Gheorghe Grigoraş**, Tehnici de IA în conducerea optimală a centralelor electrice, Simpozionul Internaţional "Sisteme de Inteligenţă Artificială în Electroenergetică", SIAE06, Galaţi, Romania, pp. 31 – 35, 2006.
	V105 Gheorghe Grigoraş, Gheorghe Cârţină, Utilizarea tehnicilor fuzzy şi GIS în planificarea utilităţilor, Al III- lea Simpozion Internaţional "Sisteme de Inteligenţă Artificială în Electroenergetică", SIAE06, Galaţi, Romania, pp. 120 – 128, 2006.
	V106 Gheorghe Cârţină, **Gheorghe Grigoraş**, Elena-Crenguța Bobric, *Improving Techniques of Fuzzy Models in Power Systems*, 5th International Conference on Electromechanical and Power Systems, SIELMEN'05, Chişinău, Rep. Moldova, vol. 1, pp. 460 – 463, 2005.
	V107 Gheorghe Cârţină, **Gheorghe Grigoraş**, Virgil Alexandrescu, *Pilot Pattern Choosing by Clustering and Fuzzy Techniques*, Proc. of the International Conference Energy – Environment, CIEM'05, Bucureşti, România, CD, 2005.
	V108 Gheorghe Cârţină, **Gheorghe Grigoraş**, Pay as Bid versus Marginal Clearing Pricing, Proc. of the International Conference Energy – Environment, CIEM'05, Bucureşti, România, CD, 2005.
	V109 Bobric Elena-Crenguța, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Determination of Energy Losses in Medium and Low Voltage Networks*, 5th International Conference on Electromechanical and Power Systems, SIELMEN'05, Chişinău, Rep. Moldova, vol. 1, pp. 450 – 453, 2005.
	V110 Bobric Elena-Crenguța, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Consumption Modeling for Low Voltage Networks*, 5th International Conference on Electromechanical and Power Systems, SIELMEN'05, Chişinău, Rep. Moldova, vol. 1, pp. 454 – 457, 2005.
	V111 Gheorghe Grigoraş, Gheorghe Cârţină, *Intervalele de încredere ale preţului marginal de închidere*, International Conference Energy – Environment, CIEM'05, Bucureşti, România, CD, 2005.
	V112 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Power Flow Optimization using Powers Correlation Fuzzy Models*, 27th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2004, Gliwice-Niedzika, Poland, vol. 2, pp. 273 - 276, 2004.
	V113 Gheorghe Cârţină, **Gheorghe Grigoraş**, Ovidiu Dumitrescu, Pavel Atanasoae, *Energy Market Simulation with MatLab Programming*, 27th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2004, Gliwice-Niedzika, Poland, vol. 1, pp. 187 – 190, 2004.
	V114 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Optimal Planning by Processing GIS Documents with MatLab*, 27th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2004, Gliwice-Niedzika, Poland, vol. 1, pp. 183 - 186, 2004.
	V115 Ovidiu Dumitrescu, Pavel Atanasoae, Gheorghe Cârţină, **Gheorghe Grigoraş**, *Eficiency and Reliability Improving of Combined Heat and Power Generation Units*, 27th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2004, Gliwice-Niedzika, Poland, vol. 23, pp. 281 - 284, 2004.
	V116 **Gheorghe Grigoraş**, Gheorghe Cârţină, Alexandrescu V., *Levels of Energy Losses in Distribution Networks*, Proc. of the 27th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2004, Gliwice-Niedzika, Poland, vol. 2, pp. 277 - 280, 2004.
	V117 Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, *Variables Correlations in Fuzzy Optimization Models*, International World Energy System Conference, (WESC 2004) Oradea, Romania, pp.298 – 301, 2004.
	V118 **Gheorghe Grigoraş**, Virgil Alexandrescu, Gheorghe Cârţină, *Energy Losses Computation in Distribution Systems Using Fuzzy Techniques*, International World Energy System Conference, (WESC 2004) Oradea, Romania, pp.302 – 305, 2004.

	V119 Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, *Using of the GIS Techniques in Optimization of Local Distribution Systems*, WEC Regional Energy Forum – FOREN 2004, Neptun, Romania, CD, 2004.
	V120 Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, Ioan Silvaş, Dumitru Federenciuc, Petru Burlacu, *Tehnici IA în analiza contingenţelor în reţelele de 110 kV*, Simpozionul Internaţional "Sisteme de Inteligenţă Artificială în Electroenergetică", SIAE04, Galaţi, Romania, pp. 56-60, 2004.
	V121 Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, Ioan Silvaş, Dumitru Federenciuc, Sorin Ivan, *Tehnici fuzzy în modelarea consumului reţelelor de joasă tensiune*, Simpozionul Internaţional "Sisteme de Inteligenţă Artificială în Electroenergetică", SIAE04, Galaţi, Romania, pp. 61-66, 2004.
	V122 **Gheorghe Grigoraş**, Virgil Alexandrescu, Gheorghe Cârţină, *Folosirea tehnicilor fuzzy în estimarea pierderilor de energie în reţelele de distribuţie*, , Simpozionul Internaţional "Sisteme de Inteligenţă Artificială în Electroenergetică", SIAE04, Galaţi, Romania, pp. 148-154, 2004.
	V123 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Determination of Load Profiles in Power System by Fuzzy Techniques*, the 8th International Symposium on Automatic Control and Computer Science, SACCS 2004, Iaşi, Romania, CD, 2004.
	V124 Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, *Software for competition in deregulated markets*, International Conference Energy – Environment, CIEM'05, Bucureşti, România, vol. II, pp.5.49 – 5.54, 2003.
	V125 Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, Integrating and processing GIS documents with Matlab programming in networks planning, International Conference Energy – Environment, CIEM'05, Bucureşti, România,, vol. I, pp.1.34 – 1.40, 2003.
	V126 Gheorghe Cârţină, **Gheorghe Grigoraş**, Coculeana Popa, Nicolae Brumă, *Evaluarea influenţei factorului timp asupra siguranţei în funcţionare a echipamentelor electrice folosind tehnicile fuzzy*, Simpozionul National "Siguranţa în funcţionare a sistemului energetic", Oradea, Romania, pp. 204 – 208, 2003.
	V127 Cârţină Gheorghe, **Grigoraş Gheorghe**, Brumă Nicolae, Coculeana Popa, Folosirea tehnicilor fuzzy în cadrul modelelor de fiabilitate, Simpozionul National "Siguranţa în funcţionare a sistemului energetic", Simpozionul National "Siguranţa în funcţionare a sistemului energetic", Oradea, Romania, pp. 209 – 214, 2003.
	V128 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Reliability Indexes Evaluation in Uncertainty Conditions*, the 2nd European Conference on Intelligent Systems & Technologies, ECIT'2002, Iasi, Romania, CD, 2002, ISBN: 973-8075-20-3.
	V129 Gheorghe Cârţină, **Gheorghe Grigoraş**, Unit Commitment Optimization by Interior-Point Method, the 2nd European Conference on Intelligent Systems & Technologies, ECIT'2002, Iasi, Romania, CD, 2002, ISBN: 973-8075-20-3.
	V130 **Gheorghe Cârţină**, Virgil Alexandrescu, Eugen Bîrlădeanu, Gheorghe Grigoraş, Mariana Moshe, *Power Distribution System Reliability Planning Using Fuzzy Logic*, 24th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2001, Gliwice-Ustron, Poland, vol. 2, pp. 353 - 356, 2001, ISBN: 83-85940-23-5.
	V131 Virgil Alexandrescu, Gheorghe Cârţină, Eugen Bîrlădeanu, **Gheorghe Grigoraş**, *On the Induction Motor Modeling in Static Analysis of the Electric Power Systems Voltage Stability*, 24th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2001, Gliwice-Ustron, Poland, vol. 2, pp. 345 - 348, 2001, ISBN: 83-85940-23-5.
	V132 Eugen Bîrlădeanu, Gheorghe Cârţină, Virgil Alexandrescu, **Gheorghe Grigoraş**, *About the Solutions for Operation Security Enhancement of The Power Systems Using the Fuzzy Description of Load*, 24th International Conference on Fundamentals of Electrotechnics and Circuit Theory, IC-SPETO 2001, Gliwice-Ustron, Poland, vol.2, pp. 357 - 360, 2001, ISBN: 83-85940-23-5.
	V133 Gheorghe Cârţină, **Gheorghe Grigoraş**, *Considerarea factorului timp în determinarea indicatorilor de fiabilitate*, a-III-a Conf. Intern. de Sisteme Electromecanice şi Energetice (SIELMEN 2001), Chişinău, Rep. Moldova, vol.II, pp. 157 - 160, 2001, ISBN: 9975-9638-7-0 .
	V134 Gheorghe Cârţină, **Gheorghe Grigoraş,** Using Fuzzy Reliability Indices in Planning of the Distribution Networks, 7th Intern. Symposium on Automatic Control and Computer Science, SACCS 2001, Iaşi, Romania, CD, 2001.
	V135 Gheorghe Cârţină, **Gheorghe Grigoraş,** Estimation of Diversity Factors by Fuzzy Techniques, 7th Intern. Symposium on Automatic Control and Computer Science, SACCS 2001, Iaşi, Romania, CD, 2001.
	V136 Virgil Alexandrescu, Gheorghe Cârtină, Eugen Bîrladeanu, Claudia Bonciu, **Gheorghe Grigoraş**, *A new view-point regarding the static caracteristics study of the induction motors*, 23nd International Conference on Fundamentals of Electrotechnics and Circuit Theory, SPETO 2000, Gliwice-Ustron, Poland, pp. 325-328, 2000, ISBN: 83-85940-22-7.

	V137 Gheorghe Cârtină, Virgil Alexandrescu, **Gheorghe Grigoraş**, Mariana Moshe, *Peak load estimation in distribution networks*, 23nd International Conference on Fundamentals of Electrotechnics and Circuit Theory, SPETO 2000, Gliwice-Ustron, Poland, pp. 423-426, 2000, ISBN: 83-85940-22-7.
	V138 Virgil Alexandrescu, Eugen Bîrlădeanu, Gheorghe Cârţină, Claudia Bonciu, **Gheorghe Grigoraş**, *Alocarea costurilor serviciului de transport de energie electrică pe noduri de reţea*, Conferinţa Naţională de Energetică, CNE-M-2000, Chişinău, Rep. Moldova, vol.I, pp. 153-157, 2000, ISBN: 9975-63-024-3.
	V139 Eugen Bîrlădeanu, Gheorghe Cârţină, Virgil Alexandrescu, Claudia Bonciu, **Gheorghe Grigoraş**, *Considerarea costurilor marginale în tariful de transport al energiei electrice*, Conferinţa Naţională de Energetică, CNE-M-2000, Chişinău, Rep. Moldova, pp. 149-152, 2000, ISBN: 9975-63-024-3.
	V140 Claudia Bonciu, Gheorghe Cârtina, Virgil Alexandrescu, **Gheorghe Grigoraş**, Mihai Caba, *Abordari multicriteriale in modernizarea liniilor de MT,* Simpozionul National de Retele Electrice, 25, Iasi, Romania, vol.II, pp. 305-309, 2000.
	V141 Virgil Alexandrescu, Gheorghe Cârtină, Eugen Bîrladeanu, Cludia Bonciu, **Gheorghe Grigoraş**, Ioan Ciutea, Coculeana Popa, *Tehnici fuzzy in analiza retelelor electrice de distributie de medie tensiune*, Simpozion National de Retele Electrice, 25 – 26 Mai 2000, Iasi, Romania, Vol.II, pp.284-289.
	V142 Gheorghe Cârţină, Virgil Alexandrescu, Eugen Bîrlădeanu, **Gheorghe Grigoraş**, Mariana Moise, *Optimizarea multicriterială a deciziilor privind lucrările de modernizare in energetică*, Sesiunea jubiliara a Facultăţii de Energetică, UTB, vol.I, pp.25-30, 2000.

4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.*

	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi comerciale
	P1 *Platforma de management si control integrat al fluxurilor purtatorilor de energie in scopul cresterii eficientei energetice la IMM-uri*, Grant PN-III-P2-2.1-CI-2017-0190, Contract 105CI/25.07.2017 – Director (50000 lei)
	P2 *Sistem integrat pentru optimizarea consumului de energie a grupurilor de pompare din cadrul sistemelor de irigații* Grant PN-III-P2-2.1-CI-2017-0169, Contract 17CI/25.07.2017 – Membru (50000 lei)
	P3 *Instrument software pentru gestiunea tranzactiilor pe piata de energie electrica*, Grant PN-III-P2-2.1-CI-2017-0328, Contract 45CI/25.07.2017 – Membru (50000 lei)
	P4 *Prognoza de consum propriu tehnologic pentru reaua de energie electrica din zona de activitate a Delgaz Grid. S.A.*, Contract nr. 448P / 15.03.2017; beneficiar: Delgaz Grid. S.A – Membru (44888 lei)
	P5 *Elaborare studiu - Servicii de consultanță de specialitate în proiectul EON Moldova Distribuție de reducere a pierderilor tehnice în rețelele de distribuție a energiei electrice pentru perioada 2016*; Contract nr. 684P / 21.04.2016; beneficiar: EON Distribuție Romania S.A. – Membru (60000 lei)
	P6 *Servicii de consultanță de specialitate în proiectul EON Moldova Distribuție de reducere a pierderilor tehnice în rețelele de distribuție*, Contract nr. 1398P / 08.10.2014, beneficiar: E.ON Moldova Distribuţie S.A. – Membru (194000 lei)
	P7 *Norma de consum propriu tehnologic în rețelele de distribuție pentru anul 2013*, Contract nr. 337P / 21.03.2014, 2014, beneficiar: E.ON Moldova Distribuţie S.A. – Membru (10000 lei)
	P8 *Studiu privind verificarea schemelor de protecţie împotriva loviturilor directe de trăsnet în cazul staţiei 220/110/20 kV Munteni. Analiză comparată a metodei normate şi a metodei electrogeometrice*, Contract nr. 8795P/17.05.2013. Beneficiar: CN Transelectrica SA, Sucursala de Transport Bacău – Membru (70680 lei)
	P9 *Dezvoltarea platformei de cercetare pentru energie eficientă și durabilă – ENERED*, Grant 911/ SMIS-CSNR 13987, Contract de finanţare: 430/21.12.2012, 2012 – 2106 (51031879 lei)
	P10 *Studiu de determinare a consumului propriu tehnologic în rețelele de joasă tensiune aferente jud. Bacău, aparținând E.ON Moldova Distribuție S.A*, Contract de cercetare nr. 3564P / 01.11.2011, 2011, beneficiar: E.ON Moldova Distribuţie S.A – Membru (50000 lei)
	P11 *Sistem inteligent de predictie si control al congestiilor in retelele de transport si distributie la inalta tensiune*, Grant PNCDI II – Parteneriate, contract nr. 22126 / 01.10.2008, 2008, beneficiar: CNCSIS – membru (319859 lei)

	P12 *Tehnici de Inteligență artificială și modele noi pentru dezvoltarea studiilor de sarcină în scopul utilizării eficiente a energiei electrice în condițiile impuse de funcționarea pieței de energie electrică*, Grant CNCSIS tip A, cod 241, tema 13 / 2006, contract nr. 63GR/19.05.2006 si tema 26 / 2007, contract nr. GR80/23.05.2007, 2006, beneficiar: CNCSIS – Membru (90430 lei)
	P13 *Amplasarea surselor de putere în reţelele de distribuţie de 110 kV şi MT ale S.C. E.ON Moldova Distribuţie S.A. după criteriul pierderilor minime de energie şi al apropierii surselor de consumator şi studio privind compensarea şi reglarea puterii reactive în scopul optimizării nivelului de tensiune în reţelele de 110 kV ale S.C. E.ON Moldova Distribuţie S.A*, Contract de cerectare nr. 7405 P / 26.10.2007, 2007, beneficiar: E.ON Moldova Distribuţie S.A – Membru (145440 lei)
	P14 *Utilizarea tehnicilor de inteligenţă artificială în scopul creşterii performanţelor reţelelor de transport ale energiei electrice*, Contract de cerectare nr. 1578P/2003, 2003, beneficiar: Transelectrica SA –ST Bacău – Membru (5700 lei)
	P15 *Produs soft pentru planificarea şi analiza reţelelor electrice de distribuţie.* Contract de cerectare nr. 967P/2002, 2002, beneficiar: SC. FDFEE Electrica Moldova S.A. Sucursala Iaşi – Membru (5000 lei)
	P16 *Model multiobiectiv de optimizare a planificarii retelelor electrice de distributie prin tehnici fuzzy*, Contract de cerectare nr. 562P/2000, 2000, beneficiar: SC. FDFEE Electrica Moldova S.A. Sucursala Iaşi – Membru (5000 lei)
	P17 *Alocarea costurilor serviciilor de transport pe noduri de retea tinind seama de cerintele si restrictiile specifice retelelor de transport din tara noastra*, Contract de cercetare nr. 889P/2000, 2000, beneficiar: STD Bacau – Membru (4000 lei)
	P18 *Analiza contingentelor din retelele 400/220/110 kV din zona STD Bacau in vederea optimizarii programului de retrageri din exploatare.* Contract de cerectare nr. 890P/2000, 2000, beneficiar: STD Bacau – Membru (5000 lei)
	P19 *Calcule utilizind tehnici fuzzy in reteaua de 110 kV a SDEE Galati; vizind simularea sarcinii; calculul regimurilor; optimizarea functionarii retelei.* Contract de cerectare nr. 853P/2000, 2000, beneficiar: SDEE Galați – Membru (4000 lei)

Note:

(1) Fiecare lucrare este prezentată, în limba în care a fost publicată / expusă, corespunzător structurii "I, II, III, IV, V, VI", unde:

I - indicativul (T1, T2 etc.; Ca1, Ca2 etc.; …), care se scrie "bold" la lucrările realizate după acordarea ultimului titlu didactic/ grad profesional (**Ca1**, **I1** etc., după caz);
II - autorii în ordinea din publicaţie, cu scriere "bold" **a candidatului**;
III - *titlul*, scris "italic";
IV - editura sau revista sau manifestarea şi/sau alte elemente de localizare, după caz;
V - intervalul de pagini din publicaţie, respectiv, pp …-…, numărul total de pagini, respectiv, … pg., sau alte date similare, după caz;
VI - anul sau perioada de realizare, după caz;

(2) În cadrul fiecărui grup de lucrări (Ca1, Ca2 etc.; I1, I2 etc. ; …), lucrările sunt în ordine invers cronologică;
(3) În cazul în care o grupă de lucrări nu se regăseşte în activitatea candidatului, respectiva grupă poate fi eliminată din listă;
(4) Candidaţii au libertatea să completeze lista şi cu alte grupe de lucrări.

Data: 28.10.2019

Candidat,
Conf.. dr. ing. Gheorghe Grigoraș

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DIRECŢIA RESURSE UMANE

NR. 1288 / 29.10.2019

ADEVERINŢĂ

Se atestă prin prezenta că dl./d-na Grigoras Gheorghe domiciliat(ă) în Iasi str. Sos. Radului 1 nr. 6A, judeţul Iasi, având B.I./C.I. seria MX nr. 378762, eliberat de SPCLEP Iasi, este încadrat(ă) în instituţia noastră, pe durată nedeterminată/determinată începând cu data de 27.09.1999 până la data de —, în prezent având funcţia de Conferentiar univ. - Facultatea TEETA, cu un salariu de bază de ....., tranşa de vechime ....., gradaţie de merit ....., stabilitate ....., indemnizaţie pentru titlul ştiinţific de doctor ....., alte elemente ale sistemului de salarizare ....., salariu brut ....., salariu net .....

Se eliberează prezenta pentru a-i servi la dosar gradatie de merit

Pentru anii 2018, 2017, 2016, 2015, 2014 au fost depuse la Biroul Personal fiselle de autoevaluare si evaluare de catre Directorul de Departament

Şef Serviciu E.R.U.,
ing. Gabriel FLOREA

Şef Serviciu Salarizare,
Ec. Anita SĂNDUCU

Administrator financiar,

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