

Domeniul Fundamental: ȘTIINȚE INGINERESTI

Domeniul de Studii Universitare: Comisia Calculatoare, Tehnologia Informației și Ingineria Sistemelor

Comisia CNATDCU [nr/denumire]: 15. Comisia Calculatoare, Tehnologia Informației și Ingineria Sistemelor

Fișă de verificare
a îndeplinirii standardelor pentru susținerea tezei de abilitare
[OMENCS 6129 / 20.12.2016]

CANDIDAT: Florin DRAGOMIR

Activ.	Categoriile și restricții	Indicatori	Realizat	Cerința este îndeplinită prin următoarele
A1. Activitate didactică și profesională				
A1.1.1		internationale	50 / nr. de autori	-
A1.1.2	Cărți de autor sau capitole de specialitate în edituri cu ISBN Carti/ monografii	nationale	50 / nr. de autori	122,91 1. Iliescu S.St., Dragomir O., Fagarașan I, Dragomir F. , Ștefan V., Arghira N., Stamatescu I., Stamatescu G., Tudor V., Calofir V., Hossu D., Costianu D. - <i>Tehnici de inteligență artificială folosite în managementul energiei electrice</i> , Ed. Printech, București, ISBN: 978-606-23-0506-2, 2015 / 170 pg. (50/12 = 4,16) 2. Dragomir F. , Dragomir O., Fagarașan I, Arghira N., Stamatescu G., Olariu N., Stamatescu I., Iliescu S.St. - <i>Modelarea și simularea rețelelor de joasă tensiune cu producere distribuită din surse regenerabile de energie</i> , Ed. MatrixRom, București, ISBN 978-606-25-0019-1, 2013 / 200 pg. (50/8 = 6,25) 3. Dragomir F. , Dragomir O. - <i>Programarea în limbaj de asamblare a microcontrolerelor</i> , Ed. MatrixRom, București, ISBN 978-973-755-899-2, 2013 / 186 pg. (50/2 = 25) 4. Dragomir F. - <i>Conducerea inteligentă a rețelelor electrice de joasă tensiune cu producere distribuită</i> , Ed. Bibliotheca, Târgoviște, ISBN: 978- 973- 712- 578- 1, 2010 / 154 pg. (50) 5. Dragomir O., Dragomir F. , Minca E., Dumitrache C. - <i>Teoria sistemelor automate. Fundamente teoretice și aplicații Matlab</i> , Ed. MatrixRom, București, ISBN: 978- 973- 755- 646- 2, 2010 / 293 pg. (50/4 = 12,5) 6. Minca E., Dumitrache C., Brezeanu I., Ștefan V., Dragomir F. , Dragomir O. - <i>Conducerea inteligentă a sistemelor automate. Fundamente teoretice</i> , Ed. MatrixRom, vol. I, București, ISBN 978-973-755-565-6, 2010 / 572 pg. (50/6 = 8,33) 7. Minca E., Dumitrache C., Brezeanu I., Ștefan V., Dragomir F. , Dragomir O. - <i>Conducerea inteligentă a sistemelor automate. Aplicații</i> , Ed. MatrixRom, vol. II, București, ISBN 978-973-755-566-3, 2010 / 384 pg. (50/6 = 8,33) 8. Soare C., Iliescu S.St., Tudor V., Fagarasanu I., Dragomir O., Dragomir F. - <i>Proiectarea asistată de calculator în Matlab și Simulink. Conducerea avansată a proceselor</i> , Editura Agir, București, ISBN 973-720-092-6978-973-720-092-1, 2006 / 226 pg. (50/6 = 8,33)
A1.2.1	Material didactic / Lucrări didactice publicate în edituri cu ISBN Manuale didactice		40 / nr. de autori	40 1. Dragomir F. – <i>Sisteme cu microprocesoare, Suport de curs</i> , Editura Valahia University Press, ISBN 978-606-603-135-6, 2015 / 110 pg. (40)

Activ.	Categorii și restricții	Indicatori	Realizat	Cerința este îndeplinită prin următoarele
A1. Activitate didactică și profesională			162,91	<p>Condiții minimale pentru A1: 100 Realizat A1: 162,91</p> <p>Condiții minimale obligatorii pe subcategorii: A1.1.1 - A1.1.2 Cărți de specialitate: 1 Realizat: 9</p>
A2. Activitatea de cercetare				
A2.1	Articole în reviste cotate ISI, și lucrări în volumele unor manifestări științifice indexate ISI	<p>(25+30 * factor impact) / nr.de aut</p> <p>Se consideră factorul de impact ISI al revistei valabil în anul publicării sau la data depunerii dosarului. Pentru volumele manifestărilor ISI se consideră factorul de impact echivalent 0.25. Pentru volumele conferințelor internaționale de top în domeniul de abilitare se consideră factorul de impact echivalent 0.75</p>	376,96	<ol style="list-style-type: none"> (ISI Web of Science, Article) – Dragomir F., Caramida M.S., Dragomir O.E., Minca E. - <i>Towards neural control of the mobile robots</i>, Journal of Science and Arts, Vol. 19, Issue 2, pp. 529-540, Accession Number: WOS:000473615300025, ISSN: 1844-9581 (32,5/4 = 8,125) (Q1, ISI Web of Science, Article, Impact Factor: 3.302) - Dragomir F., Mincă E., Dragomir O.E., Filipescu A. - <i>Modelling and Control of Mechatronics Lines Served by Complex Autonomous Systems</i>, Sensors, Vol. 19, Issue 15, Article Number 3266, ISSN: 1424-8220, DOI: 10.3390/s19153266, Accession Number: WOS:000483198900021 (((25+30*3,302)/4 = 31,015)) (ISI Web of Science, Proceedings Paper) - Minca E., Filipescu A., Coanda H.G., Dragomir F., Dragomir O.E., Filipescu A. - <i>Extended Approach for Modelling and Simulation of Mechatronics Lines Served by Collaborative Mobile Robots</i>, Proceedings of the International Conference on System Theory, Control and Computing – ICSTCC 2018, Page(s):335 – 341, 2018, ISSN: 2372-1618, ISBN:978-1-5386-4444-7, DOI: 10.1109/ICSTCC.2018.8540713, Accession Number: WOS:000465109800055, (32,5/6 = 5,416) (ISI Web of Science, Proceedings Paper) – Minca E., Coanda H.G, Dragomir F., Dragomir O. Filipescu A. - <i>Cycle time optimization of a reversible A/DML served by a mobile robotic system</i>, Proceedings of the 19th International Conference on System Theory, Control and Computing, (ICSTCC), pp. 99 – 104, 2015, INSPEC Accession Number: 15586591, Accession Number: WOS:000382384100017, ISBN:978-1-4799-8481-7, DOI: 10.1109/ICSTCC.2015.7321276 (32,5/5 = 6,5) (ISI Web of Science, Article) – Dragomir F., Ivan I.A., Gurgu I.V., Radulescu N.G., Bucurica I.A., Dulama I.D. - <i>Cosmol simulation of electromagnetic field required for a microrobot actuation</i>, Journal of Science and Arts, 2(43), pp. 523-529, 2018, Accession Number: WOS:000436646200024, ISSN: 1844-9581 (32,5/6 = 5,416) (ISI Web of Science, Proceedings Paper) - Dragomir F., Dragomir O.E., Oprea A., Olteanu L., Olariu N., Ursu V. - <i>Simulation of lithium-ion batteries from a electric vehicle perspective</i>, The Electric Vehicles International Conference, București, 5-6 October 2017, Accession Number: WOS:000427815000014.; ISBN: 978-1-5386-2382-4, (32,5/6 = 5,416) (ISI Web of Science, Proceedings Paper) - Dragomir O.E., Dragomir F - <i>Decision support system integrating fuzzy logic and expert system for optimization of smart grid functioning</i>, Proceedings of International Conference on Control, Decision and Information Technologies (CoDIT 2016), 6-8 April 2016, Accession Number: WOS:000386533900034, ISBN: 978-1-5090-2188-8, DOI: 10.1109/CoDIT.2016.7593558, (32,5/2 = 16,25) (ISI Web of Science, Proceedings Paper) - Dragomir O.E., Dragomir F. - <i>Monitoring and diagnosis system based on fuzzy- multi agent tools</i>, Proceedings of the 16th SGEM GeoConference on Energy and Clean Technologies, Book Series: International Multidisciplinary Scientific GeoConference-SGEM, pp. 503-509, 2016, Accession Number:

Activ.	Categoriile și restricții	Indicatori	Realizat	Cerința este indeplinită prin următoarele
				<p>WOS:000391348600065, ISBN: 978-619-7105-63-6, ISSN: 1314-2704, (32,5/2 = 16,25)</p> <p>9. <i>(Q2, ISI Web of Science, Article, Impact Factor: 2.436)</i> - Dragomir O.E., Dragomir F., Stefan V., Minca E. - <i>Adaptive Neuro-Fuzzy Inference Systems as a Strategy for Predicting and Controlling the Energy Produced from Renewable Sources</i>, Energies, 8(11), pp. 13047-13061, 2015, Accession Number: WOS:000365686800042, ISSN: 1996-1073, Published: 17 November 2015 ((25+30*2,436)/4 = 24,52)</p> <p>10. <i>(ISI Web of Science, Article, Impact Factor: 0.913)</i> - Dragomir O.E., Dragomir F., Stefan V., Minca E. - <i>Adaptive Neuro – Fuzzy Inference Systems – an Alternative Forecasting Tool for Prosumers</i>, Studies in Informatics and Control, Volume 24, Issue 3, pp. 351-360, 2015, Accession Number: WOS:000362241800012, ISSN: 1220-1766 ((25+30*0,913)/4 = 13,0975)</p> <p>11. <i>(SCIMajor, Computer Science, ISI Web of Science, Proceedings Paper)</i> - Dragomir O.E., Dragomir F., Radulescu M. - <i>Matlab Application of Kohonen Self- Organising Map to Classify Consumers' Load Profiles</i>, Procedia Computer Science, Volume 31, Pages 474–479, 2014, ISSN: 1877-0509, DOI : 10.1016/j.procs.2014.05.292, Accession Number: WOS:000360713800054, ISSN: 1877-0509 (47,5/3 = 15,83)</p> <p>12. <i>(ISI Web of Science, Proceedings Paper)</i> - Stanescu I.A., Stefan A., Stefan D., Dragomir F., Olariu N., Dragomir O.E. - <i>Intelligent decision support for Renewable Energy Providers</i>, Proceedings of the 2014 International Conference on Control, Decision and Information Technologies (CoDIT2014), Page(s): 488 – 492, 2014, Accession Number: WOS:000358866300085, ISBN: 978-1-4799-6773-5, DOI : 10.1109/CoDIT.2014.6996942 (32,5/6 = 5,416)</p> <p>13. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir F., Dragomir O.E., Iliescu S.St., Brezeanu I., Stănescu I. - <i>Assessment of photovoltaic panels health using a LabView object oriented application</i>, Proceedings of the 2014 International Conference on Control Engineering and Automation (ICCEA2014), pp. 711-716, 2014, Accession Number: WOS:000351733900113, ISBN: 978-1-60595-210-9, ISSN: 1022-6680 (32,5/5 = 6,5)</p> <p>14. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir O., Dragomir F. - <i>NN based Support System for Renewable Energy Forecasting and Integration</i>, Proceedings of the International Conference on Automation, Quality and Testing, Robotics (AQTR 2014), Page(s): 1 – 6, 22-24 May 2014, Cluj-Napoca, Romania, Accession Number: WOS:000346131600074, ISBN: 978-1-4799-3732-5, ISSN: 1844-7872 (32,5/2 = 16,25)</p> <p>15. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir F., Dragomir O.E. - <i>Microrobotics: Present, Challenges, Perspectives</i>, Proceedings of the 2014 IEEE International Conference on Robotics and Biomimetics (RoBio2014), pp. 1904 – 1909, 2014, Bali, Indonesia, DOI : 10.1109/ROBIO.2014.7090614, Accession Number: WOS:000380399500317, ISBN: 978-1-4799-7397-2 (32,5/2 = 16,25)</p> <p>16. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir O.E., Dragomir F. - <i>Developing a Matlab tool for PV systems energy production forecasting using ANFIS</i>, Proceedings of the 14th SGEM GeoConference on Energy and Clean Technologies, Vol. 1, pp. 141-148, 2014, DOI: 10.5593/SGEM2014/B41/S17.019, Accession Number: WOS:000371089600019, ISBN: 978-619-7105-15-5, ISSN: 1314-2704 (32,5/2 = 16,25)</p> <p>17. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir F., Dragomir O.E., Arghira N., Calofir V. - <i>Evaluation of PV systems degradation performances</i>, Proceedings of the 14th SGEM GeoConference on Energy and Clean Technologies, Vol. 1, pp. 221-228, 2014, DOI: 10.5593/SGEM2014/B41/S17.029, Accession Number: WOS:000371089600029, ISBN: 978-619-7105-15-5, ISSN: 1314-2704 (32,5/4 = 8,125)</p>

Activ.	Categoriile și restricții	Indicatori	Realizat	Cerința este îndeplinită prin următoarele
				<p>18. <i>(ISI Web of Science, Proceedings Paper)</i> - Oprea A., Dragomir F., Dragomir O.E., Olariu N., Olteanu L. - <i>Monitoring of Electrical Parameters into Island Grid Integrating Renewable Energy Sources</i>, The 3rd International Conference on Green Building, Materials and Civil Engineering, Book Series: Applied Mechanics and Materials, Volumes 368 - 370, Pages: 346-349, 2013, Accession Number: WOS:000339411600069, ISBN:978-3-03785-792-2, ISSN: 1660-9336 (32,5/5 = 6,5)</p> <p>19. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir O.E., Dragomir F. - <i>Integrated solutions based on neural networks for optimizing energy management in a microgrid</i>, The 4th International Symposium on Electrical and Electronics Engineering, 11 - 13 October 2013, Galati, Romania, Accession Number: WOS:000335153400042, ISBN: 978-1-4799-2442-4 (32,5/2 = 16,25)</p> <p>20. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir F., Dragomir O.E., Oprea A. - <i>Stand-Alone Power System for Monitoring and Control of the Temperature</i>, Advances in Energy Science and Technology, PTS 1-4, Book Series: Applied Mechanics and Materials, Volume: 291-294 Pages: 2570-2573, 2013, Accession Number: WOS:000320478401193, ISBN: 978-3-03785-634-5, ISSN: 1660-9336 (32,5/3 = 10,83)</p> <p>21. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir O.E., Dragomir F., Stefan V. - <i>Guideline to choose a forecasting tool with fuzzy logic support</i>, Proceedings of the 8th IEEE Conference on Industrial Electronics and Applications (ICIEA 2013), Book Series: IEEE Conference on Industrial Electronics and Applications, Melbourne, Australia, 19 – 21 Iunie 2013, Page(s): 595 – 600, Accession Number: WOS:000326679200109, ISBN: 978-1-4673-6322-8 (32,5/3 = 10,83)</p> <p>22. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir F., Dragomir O.E. - <i>Improvement of energy consume from hybrid systems integrating renewable energy sources</i>, Renewable and Sustainable Energy II, PTS 1-4, Book Series: Advanced Materials Research, Volume: 512-515, Pages: 1147-1150, 2012, Accession Number: WOS:000312119900223, ISBN: 978-3-03785-414-3, ISSN: 1022-6680 (32,5/2 = 16,25)</p> <p>23. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir F., Dragomir O.E. - <i>Distributed Power Generation from Renewable Energy Resources</i>, Proceedings of UKSim-AMSS 6th European Modelling Symposium on Mathematical Modelling and Computer Simulation (EMS2012), 14 – 16 November 2012, Valletta, Malta, Page(s): 299 - 304, 2012, Accession Number: WOS:000392818500049, ISBN: 978-0-7695-4926-2, ISSN: 2473-3539, DOI : 10.1109/EMS.2012.51 (32,5/2 = 16,25)</p> <p>24. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir F., Dragomir O.E., Minca E. - <i>Adaptive control access of stand-alone power systems</i>, The 2nd International Conference on Advances in Energy Engineering, Book Series: Energy Procedia, Volume: 14, Pages: 552-557, 2012, Accession Number: WOS:000305958700087, ISSN: 1876-6102 (32,5/3 = 10,83)</p> <p>25. <i>(ISI Web of Science, Proceedings Paper)</i> - Minca E., Dragomir O., Dragomir F., Enache M.A., Radaskin A. - <i>Assembly-Disassembly Flexible Lines and Collaborative Robots Considered as Hierarchical Systems in Temporal Recurrent Modelling</i>, Proceedings of the 9th IEEE World Congress on Intelligent Control & Automation (WCICA2011), pg. 69 - 74, June 21-25, 2011, Taipei, Taiwan, Print ISBN: 978-1-61284-698-9, INSPEC Accession Number: 12145322, DOI: 10.1109/WCICA.2011.5970637 Accession Number: WOS:000395331000015, ISBN:978-1-61284-700-9 (32,5/5 = 6,5)</p> <p>26. <i>(ISI Web of Science, Proceedings Paper)</i> - Dragomir O., Dragomir F., Minca E. - <i>Forecasting of renewable energy load with radial basis function (RBF) neural networks</i>, Proceedings of the 8th International Conference on Informatics</p>

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					<p>in Control, Automation and Robotics, (ICINCO 2011), Volume 2, Noordwijkerhout, The Netherlands, 28 - 31 July, 2011, SciTePress 2011, pages: 409-412, ISBN: 978-989-8425-75-1, Accession Number: WOS:000392351200067 (32,5/3 = 10,83)</p> <p>27. (ISI Web of Science, Proceedings Paper) - Dragomir O.E., Dragomir F., Gouriveau R., Minca E. - <i>Medium term load forecasting using ANFIS predictor</i>, The 18th IEEE Mediterranean Conference on Control and Automation, Book Series: Mediterranean Conference on Control & Automation, Pages: 551-556, 2010, Accession Number: WOS:000324864700088, ISBN: 978-1-4244-8092-0, ISSN: 2325-369X (32,5/4 = 8,125)</p> <p>28. (ISI Web of Science, Proceedings Paper) - Minca E., Dragomir O., Dragomir F. - <i>Producer-Consumer Distributed Energy Production Systems modeling with a new Approach of Recurrent Synchronized Fuzzy Petri Nets</i>, The 8th IEEE World Congress on Intelligent Control and Automation, Jinan, China, pg. 1668-1673, 2010, Accession Number: WOS:000295959501142, ISBN: 978-1-4244-6712-9 (32,5/3 = 10,83)</p> <p>29. (ISI Web of Science, Proceedings Paper) - Dragomir F., Patric P.C., Dragomir O.E. - <i>Intelligent Robot with Microcontroller for Avoiding Obstacles</i>, The 5th International Conference on Robotics and Automation Systems, Book Series: Solid State Phenomena, Volume: 166-167, Pages: 179-184, 2010, Accession Number: WOS:000289532000028, ISSN: 1012-0394 (32,5/3 = 10,83)</p> <p>30. (ISI Web of Science, Proceedings Paper) - Minca E., Racoceanu D., Dragomir O., Stefan V., Dragomir F., - <i>Predictive modelling of the monitoring function. A predictive modelling application for fault states in a manufacturing system</i>, The 7th IEEE International Conference on Control & Automation, Book Series: IEEE International Conference on Control and Automation ICCA, Vols. 1-3, pp. 1487-1492, 2009, Accession Number: WOS:000280542300258, ISBN: 978-1-4244-4706-0 (32,5/5 = 6,5)</p> <p>31. (ISI Web of Science, Proceedings Paper) - Dragomir O., Dragomir F., Minca E. - <i>An application oriented guideline for choosing a prognostic tool</i>, Intelligent systems and automation, Book Series: AIP Conference Proceedings, Volume 1107, pp. 257-262, 2009, Accession Number: WOS:000265071000042, ISBN: 978-0-7354-0642-1, ISSN: 0094-243X (32,5/3 = 10,83)</p> <p>32. (ISI Web of Science, Proceedings Paper) – Mincă E., Dragomir O., Dragomir F., Istudor I. - <i>Advanced Methods for Modeling of Monitoring Functions in Hierarchical Systems</i>, Proceedings of the 17th Mediterranean Conference on Control and Automation (MED'09), pp. 1114-1119, 24-26 Jun. 2009, Thessaloniki, Greece, Accession Number: WOS:000280699600191, ISBN: 978-1-4244-4684-1 (32,5/4 = 8,125)</p>
A2.2	Articole in reviste, si în volumele unor manifestări științifice indexate in alte baze de date internaționale recunoscute (BDI)	ISI, Scopus, IEEE (Institute of Electrical and Electronics Engineers) Xplore, Science Direct, Elsevier,	20 / nr.de autori	109,66	<p>1. (BDI, Scopus) - Dragomir F., Dragomir O.E., Olariu N., Oprea A. - <i>Power Quality Analysis of Grid Connected PV Power System</i>, Proceedings of the 18th SGEM GeoConference on Energy and Clean Technologies, 2018 (20/4 = 5)</p> <p>2. (BDI, Scopus) - Dragomir O.E., Dragomir F. - <i>A Multi-Agent System for Energy Management in an Intelligent Microgrid</i>, Proceedings of the 18th SGEM GeoConference on Energy and Clean Technologies, 2018 (20/2 = 10)</p> <p>3. (BDI, Scopus) - Dragomir O.E., Dragomir F. - <i>Pattern recognition tool for energy consumption profiles identification</i>, Proceedings of the 17th SGEM GeoConference on Energy and Clean Technologies, Vol. 17, Issue 42, pp. 467-474, 2017 (20/2 = 10)</p> <p>4. (BDI, Scopus) - Lakatoş E.S., Dragomir F., Olteanu L., Oprea A., Măntescu G., Olariu N. - <i>Modelling and simulation of photovoltaic modules using SPICE/Matlab</i>, in Electrotehnica, Electronica, Automatica (EEA), vol. 66, no.1, pp. 09-</p>

Activ.	Categoriile și restricții	Indicatori	Realizat	Cerința este indeplinită prin următoarele
		Springerlink, ACM (Association for Computing Machinery), DBLP, EURASIP, Wiley, Inspec		<p>16, 2018, ISSN: 1582-5175 (20/6 = 3,33)</p> <p>5. <i>(BDI, Scopus) - Dragomir F., Dragomir O.E. - Simulation of a low voltage grid with power generation from renewable energy resources</i>, Advanced Materials Research, Volume 918, Chapter 3: Power, Energy and Environment Engineering, pp. 195-199, 2014, ISSN: 1022-6680, ISBN: 978-303835075-0, DOI : 10.4028/www.scientific.net/AMR.918.195 (20/2 = 10)</p> <p>6. <i>(BDI, Scopus) - Dragomir F., Dragomir O.E. - Forecasting of photovoltaic power generation by RBF neural networks</i>, Advanced Materials Research, Volume 918, Chapter 3: Power, Energy and Environment Engineering, pp. 200-205, 2014, ISSN: 1022-6680, ISBN: 978-303835075-0, DOI : 10.4028/www.scientific.net/AMR.918.200 (20/2 = 10)</p> <p>7. <i>(BDI, IEEE Xplore) – Dragomir O., Dragomir F., Brezeanu I., Minca E. - MLP neural network as load forecasting tool on short-term horizon</i>, Proceedings of the 19th Mediterranean Conference on Control and Automation (MED2011), pp. 1265 – 1270, 20-23 June 2011, Corfu, Grecia, Print ISBN: 978-1-4577-0124-5, INSPEC Accession Number: 12178648, DOI: 10.1109/MED.2011.5982974, (20/4 = 5)</p> <p>8. <i>(BDI, IEEE Xplore) – Minca E., Dragomir F., Dragomir O., Enache A. - Temporal Recurrent Modelling Applied to Manufacturing Flexible Lines Served by Collaborative Robots</i>, Proceedings of the 8th Asian Control Conference (ASCC2011), pp. 749-754, May 15-18, 2011, Kaohsiung, Taiwan, E-ISBN: 978-89-956056-4-6, Print ISBN: 978-1-61284-487-9, INSPEC Accession Number: 12072609 (20/4 = 5)</p> <p>9. <i>(BDI, IEEE Xplore) – Dragomir F., Dragomir O., Minca E. - A Fuzzy Approach to Intelligent Control of Low Voltage Electrical Networks with Distributed Power from Renewable Resources</i>, Proceedings of the IEEE International Energy Conference and Exhibition (EnergyCon'10), pg: 606 – 611, 18-22 December 2010, Manama, Bahrain, Print ISBN: 978-1-4244-9378-4, INSPEC Accession Number: 12007899, DOI: 10.1109/ENERGYCON.2010.5771753 (20/3 = 6,66)</p> <p>10. <i>(BDI, IEEE Xplore) – Minca E., Dragomir O., Brezeanu I., Dragomir F. - Improvement of recurrent fuzzy detection/diagnosis functions modeling. A temporal modeling application for fault states in a manufacturing system</i>, Proceedings of the 8th IEEE International Conference on Control & Automation (ICCA'10), pg. 1456-1461, 9-11 June 2010, Xiamen, China, ISSN : 1948-3449, E-ISBN : 978-1-4244-5196-8, Print ISBN: 978-1-4244-5195-1, DOI: 10.1109/ICCA.2010.5524311 (20/4 = 5)</p> <p>11. <i>(BDI, Scopus, IEEE Xplore) – Minca E., Dragomir O., Dragomir F., Stefan V. - Application for manufacturing systems served by collaborative robots monitoring</i>, Proceedings of the IEEE International Conference on Automation and Logistics (ICAL2010), pg: 138 – 143, Hong Kong/Macau, China, 2010, E-ISBN: 978-1-4244-8374-7, Print ISBN: 978-1-4244-8375-4, INSPEC Accession Number: 11556265, DOI: 10.1109/ICAL.2010.5585397 (20/4 = 5)</p> <p>12. <i>(BDI, ScienceDirect) – Dragomir O.E., Dragomir F., Gouriveau R., Minca E. - Forecasting of Renewable Energy Balance on Medium Term</i>, Large Scale Systems: Theory and Applications, (LSS2010), Villeneuve d'Ascq, France, Volume 9 Part 1, Page: 495-500, 2010, ISBN: 978-3-902661-91-3, ISSN: 1474-6670, DOI: 10.3182/20100712-3-FR-2020.00081 (20/4 = 5)</p> <p>13. <i>(BDI, IEEE Xplore) - Minca E., Dragomir O., Dragomir F., - Improvement of temporal modeling concerning recurrent detection/diagnosis functions</i>, Proceedings of the 29th Chinese Control Conference (CCC2010), pg: 3804 – 3809, 29-31 July 2010, Beijing, China, Print ISBN: 978-1-4244-6263-6, INSPEC Accession Number: 11572358 (20/3 = 6,66)</p>

Activ.	Categoriile și restricții	Indicatori		Realizat	Cerința este îndeplinită prin următoarele
					<p>14. <i>(BDI, IEEE Xplore)</i> – Dragomir O., Gouriveau R., Dragomir F., Minca E., Zerhouni N. - <i>Review of prognostic problem in condition-based maintenance</i>, European Control Conference, 2009, (ECC'09), 23-26 August 2009, pg. 1587-1592, Budapest, Hungary, 2009, ISBN 978-963-311-0, INSPEC Accession Number: 15026692, DOI: 10.23919/ECC.2009.7074633 (20/5 = 4)</p> <p>15. <i>(BDI, IEEE Xplore)</i> – Mincă E., Zemouri R., Dragomir F., Dragomir O. - <i>Hierarchical systems monitoring using recurrent synchronized fuzzy petri nets</i>, European Control Conference, 2009, (ECC'09), 23-26 August 2009, pg. 4775-4779, Budapest, Hungary, 2009, ISBN: 978-3-9524173-9-3, INSPEC Accession Number: 15034312, DOI: 10.23919/ECC.2009.7075155, (20/4 = 5)</p> <p>16. <i>(BDI, Scopus, ScienceDirect)</i> – Mincă E., Filip F.G., Zemouri R., Dragomir F., Dragomir O. - <i>Advanced methods for modeling the discrete hierarchical systems</i>, Proceedings of the 13th IFAC Symposium on Information Control Problems in Manufacturing (INCOM'09), Volume 13 Part 1, pg. 1667-1672, 3-5 June, 2009, Moscow, Rusia, 2009, ISBN: 978-390266143-2, DOI: 10.3182/20090603-3-RU-2001.00277 (20/5 = 4)</p> <p>17. <i>(BDI, ScienceDirect)</i> – Minca E., Racoceanu D., Dragomir F., Zerhouni N. - <i>A fuzzy approach for discrete event systems recovery</i>, Preprints of the 4th International Conference on Management and control of Production and Logistics (MCPL 2007), Volume 4 Part 1, pp. 585-590, Sept 2007, Sibiu, Romania, ISBN 978-973-739-481-1, DOI: 10.3182/20070927-4-RO-3905.00097 (20/4 = 5)</p> <p>18. <i>(BDI, ScienceDirect)</i> – Dragomir O., Gouriveau R., Zerhouni N., Dragomir F. - <i>Framework for a distributed and hybrid prognostic system</i>, Preprints of the 4th IFAC Conference on Management and Control of Production and Logistics (MCPL 2007), Volume 4 Part 1, pp: 431-436, Sept 2007, Sibiu, Romania, ISBN: 978-973-739-481-1, DOI: 10.3182/20070927-4-RO-3905.00072 (20/4 = 5)</p>
A2.3.1 A2.3.2	Proprietate intelectuală, brevete de invenție, certificate ORDA	internationale nationale	35 / nr.de autori 25 / nr.de autori	- 4,166	- <i>(ISI, Derwent Innovations Index)</i> – Gurgu I.V., Dragomir F. , Radulescu N.G., Dulama I., Bucurica I.A., Ivan M.E. - <i>Mobile micro-robotic system for manipulating unicellular organisms comprises a motion arena supported by a platform</i> , Oficiul de Stat pentru Invenții și Mărci (OSIM), Patent Number(s):RO132431-A0, Derwent Primary Accession Number: 2018-24701J, Derwent Class Code(s): P62 (Hand tools, cutting (B25, B26).), International Patent Classification: B81B-005/00 ; B25J-007/00 (25/6 = 4,166)
A2.4.1.1		internationale	20 * ani de desfășurare	-	-
A2.4.1.2	Granturi / proiecte de cercetare câștigate prin competiție sau Contracte cu agenți economici, în valoare de minim 10.000 dolari USA echivalent încasați Director/ responsabil	nationale	10 * ani de desfășurare	105	<p>1. <i>Sistem microrobotic mobil pentru manipularea/sortarea de organisme unicelulare (RoBoCell)</i>, Mobile microrobotic system for single-cell manipulation and sorting, Cod: PN-III-P2-2.1-PED-2016-1675, Nr. contract 132PED/2017, Autoritatea Contractantă: Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării (UEFISCDI), 18 luni, 2017-2018, Director de proiect (10*1,5 ani = 15)</p> <p>2. <i>Sistem integrat pentru caracterizarea și evaluarea performanțelor sistemelor fotovoltaice (SICEPV)</i>, Integrated system for characterization and performance evaluation of photovoltaic systems, Cod: PN-III-P2-2.1-BG-2016-0075, Nr. contract 62BG/2016, Autoritatea Contractantă: Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării (UEFISCDI), 24 luni, 2016-2018, Director de proiect (10*2 ani = 20)</p> <p>3. <i>Intelligent decision support system for the low voltage grid with distributed power generation from renewable energy resources (InDeSEn)</i>, Sistem inteligent de asistare a deciziilor aplicat în rețelele electrice de joasă tensiune cu producere distribuită din surse de energie regenerabilă, Cod: PN-II-PT-PCCA-2011-3.2-1616, Nr. contract</p>

Activ.	Categoriile și restricții	Indicatori		Realizat	Cerința este îndeplinită prin următoarele
					42/2012, Autoritatea Contractantă: Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării (UEFISCDI), 4 ani și 8 luni, 2012-2016, Director de proiect (10*4,7 ani = 47) 4. <i>A New On-Chip Magnetically-Actuated Mobile Microrobotic Agent and Embedded Control System (MicRoMag), Sistem inovant microrobotic mobil cu control magnetic imbarcat</i> , Cod: PN-II-RU-PD-2012-3-0591, Nr. contract 83/30.04.2013, Autoritatea Contractantă: Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării (UEFISCDI), 2 ani și 6 luni, 2013-2015, Director de proiect (10*2,5 ani = 25)
A2.4.2.1	Granturi / proiecte de cercetare câștigate prin competiție sau Contracte cu agenți economici, în valoare de minim 10.000 dolari USA echivalent încasați Membru in echipa	internationale	4 * ani de desfasurare	-	-
A2.4.2.2		nationale	2 * ani de desfasurare	28	1. <i>Intelligent and distributed control of 3 complex autonomous systems integrated into emerging technologies for medical-social personal assistance and servicing of precision flexible manufacturing lines (CIDSACTEH)</i> , Cod: PN-III-P1-1.2-PCCDI-2017-0290, 2,5 ani, 2018-2020, Membru in echipa de cercetare (2*2,5 ani = 5) 2. <i>Prototipuri de sisteme robotice autonome destinate asistenței medico-sociale și deservirii unor procese de fabricație din metalurgie, ceramică, sticlă și industria de automobile (ProRobSis)</i> , Cod: PN-II-PT-PCCA-2013-4-0686, 2 ani, 2014 – 2016, Membru in echipa de cercetare (2*2,5 ani = 5) 3. <i>Contributia Romaniei la tintele europene privind dezvoltarea surselor regenerabile de energie (PROMES)</i> , Cod: PNCDI II Parteneriate, nr. 21-015/2007, 3 ani, 2007 – 2010, Membru in echipa de cercetare (2*3 ani = 6) 4. <i>Complementaritatea surselor fotovoltaice și a captatoarelor termice în arhitectura clădirilor și asigurarea utilității de energie electrică și climatizare (COFOTERM)</i> , CEEX nr. 605/2005, 3 ani, 2005 – 2007, Membru in echipa de cercetare (2*3 ani = 6) 5. <i>Advanced devices for micro and nanoscale manipulation and characterization (ADMAN)</i> , Cod: PN-II-RU-TE-2011-3-0299, 3 ani, 2011 – 2014, Membru in echipa de cercetare (2*3 ani = 6)
A2. Activitatea de cercetare				623,78	<p>Condiții minimale pentru A2: 600 Realizat A2: 623,78</p> <p>Condiții minimale obligatorii pe subcategorii: A2.1 Articole în reviste cotate ISI și în volumele unor manifestări științifice indexate ISI proceedings: 15 Realizat: 31</p> <p>A2.1 Articole în reviste cotate ISI și în volumele unor manifestări științifice indexate ISI proceedings, din care minim 3 în reviste cotate ISI Q1 sau Q2 (Revistă cotată ISI aflată printre primele 50% în cadrul subdomeniului (sau al unuia dintre subdomeniile) de acreditare ISI din punct de vedere al factorului de impact (zonele Q1-Q2 în notația ISI); Situația revistelor în top 25-50% (Q1,Q2) se consideră fie la momentul publicării, fie la data înscrierii la concurs. Una și numai una dintre lucrările necesare poate fi echivalată cu: (un brevet de invenție indexat WOS- Derwent) sau (1 articol în conferințe internaționale de top în domeniul de abilitare, lista acestora agreată și ținută la zi de comisia CNATDCU nr.15 fiind disponibilă la adresa www.cnatdca-c15.org).): 3</p> <p>Realizat:</p> <p>1. (Q1) - Dragomir F., Mincă E., Dragomir O.E., Filipescu A. - <i>Modelling and Control of Mechatronics Lines Served by Complex Autonomous Systems</i>, Sensors, Vol. 19, Issue 15, Article Number 3266, ISSN: 1424-8220, DOI: 10.3390/s19153266, Accession Number: WOS:000483198900021 IF.clasament.JCR.iunie2018</p> <p>2. (Q2) - Dragomir O.E., Dragomir F., Stefan V., Minca E. - <i>Adaptive Neuro-Fuzzy Inference Systems as a Strategy for Predicting and Controlling the Energy Produced from Renewable Sources</i>, Energies, 8(11), pp. 13047-13061, 2015,</p>

Activ.	Categoriile și restricții	Indicatori	Realizat	Cerința este indeplinită prin următoarele
				<p>Accession Number: WOS:000365686800042, ISSN: 1996-1073, Published: 17 November 2015 Clasament.IF.Rosii.Galbene2016 3. (SCIMajor, Computer Science) - Dragomir O.E., Dragomir F., Radulescu M. - <i>Matlab Application of Kohonen Self-Organising Map to Classify Consumers' Load Profiles</i>, Procedia Computer Science, Volume 31, Pages 474–479, 2014, ISSN: 1877-0509, DOI : 10.1016/j.procs.2014.05.292, Accession Number: WOS:000360713800054, ISSN: 1877-0509 Computer Science, Nr 134, SJR 0.281</p> <p>A2.4.1 Granturi / proiecte de cercetare câștigate prin competiție (Director / Responsabil partener): 2 Realizat: 4</p>

A3. Recunoașterea și impactul activității

A3.1.1	Citări în carti, reviste și volume ale unor manifestari științifice	carti, ISI	8 / nr aut art.citat	157,4	<p>I. Dragomir O., Gouriveau R., Zerhouni N., Dragomir F. - <i>Framework for a distributed and hybrid prognostic system</i>, Preprints of the 4th IFAC Conference on Management and Control of Production and Logistics (MCPL 2007), Volume 4 Part 1, pp: 431-436, Sept 2007, Sibiu, Romania</p> <ol style="list-style-type: none"> Ramasso, E., Gouriveau, R. - <i>Remaining Useful Life Estimation by Classification of Predictions Based on a Neuro-Fuzzy System and Theory of Belief Functions</i>, IEEE Transactions on Reliability, Volume:63, Issue: 2, Page(s): 555 – 566, 2014, ISI, Accession Number: WOS:000338111400014, ISSN: 0018-9529, eISSN: 1558-1721 (8/4 = 2) Kamran J., Gouriveau R., and Zerhouni N. - <i>A New Multivariate Approach for Prognostics Based on Extreme Learning Machine and Fuzzy Clustering</i>, IEEE Transactions on Cybernetics, Volume: PP, Issue: 99, 2015, ISI, Accession Number: WOS:000365320300001, ISSN: 2168-2267, eISSN: 2168-2275 (8/4 = 2) Ramasso E., Rombaut M., Zerhouni N. - <i>Joint Prediction of Continuous and Discrete States in Time-Series Based on Belief Functions</i>, IEEE Transactions on Cybernetics, Volume: 43, Issue: 1, Page(s): 37 – 50, 2013, ISI, Accession Number: WOS:000317643500004, ISSN: 2168-2267, eISSN: 2168-2275 (8/4 = 2) Elmeliani J., Nabli L., Messaoud H. - <i>Hybrid Monitoring for the Prognostic of the Reliability System</i>, Quality and Reliability Engineering International, Volume 29, Issue 1, pages 125–138, February 2013, ISI, Accession Number: WOS:000314116300012, ISSN: 0748-8017 (8/4 = 2) Galar D., Kumar U., Lee J., Zhao W. - <i>Remaining Useful Life Estimation using Time Trajectory Tracking and Support Vector Machines</i>, Journal of Physics: Conference Series 364 (2012) 012063, Volume 364, Issue 1, 2012, ISI, Accession Number: WOS:000307707100063, ISSN: 1742-6588 (8/4 = 2) Galar D., Kumar U., Yuan F.Q. - <i>RUL prediction using moving trajectories between SVM hyper planes</i>, 2012 Proceedings - Annual Reliability and Maintainability Symposium (RAMS), 23-26 Jan. 2012, Reno, Nevada, Page(s): 1-6, ISI, Accession Number: WOS:000309184100062, ISBN: 978-1-4577-1851-9 (8/4 = 2) Galar-Pascual D., Berges-Muro L., Lambán-Castillo P., Huertas-Talón J.L., Tormos-Martínez B. - <i>Cálculo de la vida útil remanente mediante trayectorias móviles entre hiperplanos de máquinas de soporte vectorial (RUL prediction using moving trajectories between SVM hyper planes)</i>, Journal of Science and Technology of the Americas, Interciencia, Vol. 38, nr. 08, Aug. 2013, Page(s): 556 – 562, ISI, Accession Number: WOS:000327560600002, ISSN: 0378-1844 (8/4 = 2) Ribot P., Pencolé Y., Combacau M. - <i>Diagnosis and prognosis for the maintenance of complex systems</i>, Proceedings 2009 IEEE International Conference on Systems, Man and Cybernetics, October 11-14, 2009, San Antonio, USA, Page(s): 4146 – 4151, ISI, Accession Number: WOS:000279574602110, ISBN: 978-1-4244-2793-2, ISSN: 1062-922X (8/4 = 2) Zio E., Di Maio F. - <i>A data-driven fuzzy approach for predicting the remaining useful life in dynamic failure scenarios of a nuclear system</i>, Reliability Engineering & System Safety, Volume 95, Issue 1, January 2010, Pages 49–57, ISI, Accession
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Activ.	Categoriile și restricții	Indicatori	Realizat	Cerința este indeplinită prin următoarele
				<p>Number: WOS:000271605000006, ISSN: 0951-8320 (8/4 = 2)</p> <p>10. El-Koujok M., Gouriveau R., Zerhouni N. - <i>Reducing arbitrary choices in model building for prognostics: An approach by applying parsimony principle on an evolving neuro-fuzzy system</i>, Microelectronics Reliability, Volume 51, Issue 2, February 2011, Pages 310–320, 2010 Reliability of Compound Semiconductors (ROCS) Workshop Prognostics and Health Management, ISI, Accession Number: WOS:000287460300021, ISSN: 0026-2714 (8/4 = 2)</p> <p>11. Dragomir O., Gouriveau R., Zerhouni N. - Adaptive neuro-fuzzy inference system for mid term prognostic error stabilization, International Journal of Computers Communications & Control, Volume: 3, Pages: 271-276, 2008, ISI, Accession Number: WOS:000257497600040, ISSN: 1841-9836 (8/4 = 2)</p> <p>II. Dragomir O., Gouriveau R., Dragomir F., Minca E., Zerhouni N. - Review of prognostic problem in condition-based maintenance, European Control Conference, 2009, (ECC'09), 23-26 August 2009, pg. 1587-1592, Budapest, Hungary, 2009</p> <p>1. Cui, Y., Shi, J., & Wang, Z. (2015). Discrete Event Logistics Systems (DELS) simulation modeling incorporating two-step Remaining Useful Life (RUL) estimation. Computers in Industry, 72, 68-81., ISI, Accession Number: WOS:000358461300006, ISSN: 0166-3615, eISSN: 1872-6194 (8/5 = 1,6)</p> <p>2. Lafont F., Pessel N., Balmat J.F., Gauthier J.P. - <i>Unknown-input observability with an application to prognostics for Waste Water Treatment Plants</i>, European Journal of Control, Volume 20, Issue 2, March 2014, Pages 95–103, ISI, Accession Number: WOS:000333721100006, ISSN: 0947-3580, eISSN: 1435-5671 (8/5 = 1,6)</p> <p>3. Marton I., Sánchezb A.I., Carlota S., Martorella S. - <i>Application of Data Driven Methods for Condition Monitoring Maintenance</i>, Chemical Engineering Transactions, Vol. 33, pp. 301 -306, 2013, ISI, Accession Number: WOS:000337960300050, ISBN:978-88-95608-24-2, ISSN: 1974-9791 (8/5 = 1,6)</p> <p>4. Khoury E., Deloux E., Grall A., Bérenguer C. - <i>On the Use of Time-Limited Information for Maintenance Decision Support: A Predictive Approach under Maintenance Constraints</i>, Mathematical Problems in Engineering, Volume 2013 (2013), Article ID 983595, 11 pages, ISI, Accession Number: WOS:000325582900001, ISSN: 1024-123X (8/5 = 1,6)</p> <p>5. Mustakerov I., Borissova D. - <i>An intelligent approach to optimal predictive maintenance strategy defining</i>, 2013 IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA), 19-21 June 2013, Page(s): 1 – 5, ISI, Accession Number: WOS:000332186500052, ISBN:978-1-4799-0661-1; 978-1-4799-0659-8 (8/5 = 1,6)</p> <p>6. Ding G., Lei D., Yao W. - <i>Health condition prognostics of complex equipment based on discrete input process neural networks</i>, Applied Mechanics and Materials, Volume 423-426, 2013, Pages 2347-2354, 2013, ISI, Accession Number: WOS:000339363800457, ISBN:978-3-03785-888-2, ISSN: 1660-9336 (8/5 = 1,6)</p> <p>7. Lei C.Y., Xia L.H., Wu B., Liu G. - <i>A similarity-based remaining useful life prognostic approach of equipment components</i>, The Proceedings of 2013 International Conference on Quality, Reliability, Risk, Maintenance, and Safety Engineering (QR2MSE), 15-18 July 2013, Chengdu, China, Page(s): 1874 – 1877, Accession Number: WOS:000394181000422, ISBN:978-1-4799-1014-4 (8/5 = 1,6)</p> <p>8. Si X.S., Wang W., Hu C.H., Zhou D.H. - <i>Remaining useful life estimation – A review on the statistical data driven approaches</i>, European Journal of Operational Research, Volume 213, Issue 1, 16 August 2011, Pages 1–14, ISI, Accession Number: WOS:000291082100001, ISSN: 0377-2217 (8/5 = 1,6)</p> <p>III. Dragomir F., Ivan I.A., Gurgu I.V., Radulescu N.G., Bucurica I.A., Dulama I.D. - <i>Cosmol simulation of electromagnetic field required for a microrobot actuation</i>, Journal of Science and Arts, 2(43), pp. 523-529, 2018, ISSN: 1844-9581</p> <p>1. Samoh A., Sirisathitkul C., Cheedket S., Danworaphong S. - Magnetic field simulations in flywheel energy storage system with superconducting bearing, University Politehnica of Bucharest Scientific Bulletin Series C-Electrical Engineering and Computer Science, Volume: 81 Issue: 3 Pages: 227-236, Published: 2019, ISI, Accession Number:</p>

Activ.	Categorii și restricții	Indicatori	Realizat	Cerința este indeplinită prin următoarele
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				<p>Methods, Advanced Information and Knowledge Processing 2013, pp 137-154 (4/4 = 1)</p> <p>2. Corsetti, E., Guagliardi, A. G., & Sandroni, C. (2019). An Adaptive Photovoltaic Production Estimator Based on Artificial Neural Networks, Published in CIREN 2019 Conference, ISSN 2032-9644, ISBN 978-2-9602415-0-1 (4/4 = 1)</p> <p>3. Graditi, G., Ferlito, S., & Adinolfi, G. (2016). Comparison of Photovoltaic plant power production prediction methods using a large measured dataset. <i>Renewable Energy</i>, 90, 513-519 (4/4 = 1)</p> <p>IV. Dragomir O.E., Dragomir F., Gouriveau R., Minca E. - <i>Forecasting of Renewable Energy Balance on Medium Term, Large Scale Systems: Theory and Applications</i>, (LSS2010), Villeneuve d'Ascq, France, Volume 9 Part 1, Page: 495-500, 2010</p> <p>1. Sahu A.K., Shandilya A.M., Bhardwaj S.K. - Load Forecasting of Rural Areas for Rural Electrification, <i>International Journal of Advancements in Research & Technology</i>, Volume 2, Issue2, February-2013, ISSN 2278-7763 (4/4 = 1)</p> <p>V. Dragomir O.E., Dragomir F., Gouriveau R., Minca E. - <i>Medium term load forecasting using ANFIS predictor</i>, The 18th IEEE Mediterranean Conference on Control and Automation, Book Series: Mediterranean Conference on Control & Automation, Pages: 551-556, 2010</p> <p>1. Yuce, B., Mourshed, M., & Rezgui, Y. (2017). A smart forecasting approach to district energy management. <i>Energies</i>, 10(8), 1073 (4/4 = 1)</p> <p>2. SHARMA, S., & HASAN, E. (2018). An innovative utilization of space-time activity graph to integrate the electric vehicles into smart electrical networks (4/4 = 1)</p> <p>3. Mustapha, M., Mustafa, M. W., Khalid, S. N., Abubakar, I., & Shareef, H. (2015, October). Classification of electricity load forecasting based on the factors influencing the load consumption and methods used: An-overview. In <i>Energy Conversion (CENCON)</i>, 2015 IEEE Conference on (pp. 442-447). IEEE (4/4 = 1)</p> <p>4. Mustapha, M., Mustafa, M. W., Khalid, S. N., Abubakar, I., & Abdilahi, A. M. (2016). Correlation and wavelet-based short-term load forecasting using ANFIS. <i>Indian Journal of Science and Technology</i>, 9(46). (4/4 = 1)</p> <p>5. Hussein, H. (2018, June). An Optimal Design Methodology of Adaptive Neuro-Fuzzy Inference System for Energy Load Forecasting-Hail city case study (Saudi Arabia). In <i>Proceedings of the Fourth International Conference on Engineering & MIS 2018</i> (p. 67). ACM (4/4 = 1)</p> <p>6. Gouriveau, R., Medjaher, K., & Zerhouni, N. (2017). <i>Du concept de PHM à la maintenance prédictive 1: Surveillance et pronostic</i> (Vol. 3). ISTE Group (4/4 = 1)</p> <p>7. Gouriveau, R., Medjaher, K., & Zerhouni, N. (2016). <i>From prognostics and health systems management to predictive maintenance 1: monitoring and prognostics</i>. John Wiley & Sons (4/4 = 1)</p> <p>8. Gavrilas M., Ivanov O., Gavrilas G. - <i>Electricity load forecasting based on a mixed statistical-neural-computational intelligence approach</i>, 2014 12th Symposium on. IEEE Neural Network Applications in Electrical Engineering (NEUREL), Page(s): 61 – 66, 2014 (4/4 = 1)</p> <p>9. Dakhil A.M. - <i>Short Term Load Forecasting Based Artificial Neural Network</i>, Iraq J. Electrical and Electronic Engineering, Vol. 10, No. 1, pg. 42-47, 2014 (4/4 = 1)</p> <p>VI. Minca E., Dragomir O., Dragomir F., Enache M.A., Radaskin A. - <i>Assembly-Disassembly Flexible Lines and Collaborative Robots Considered as Hierarchical Systems in Temporal Recurrent Modelling</i>, Proceedings of the 9th IEEE World Congress on Intelligent Control & Automation (WCICA2011), pg. 69 - 74, June 21-25, 2011, Taipei, Taiwan</p> <p>1. Mhalla A., Collart Dutilleul S., Benrejeb M. - <i>Monitoring of packaging machine using synchronized fuzzy petri nets</i>, 6th IFAC/ACM Conference on Management and Control of Production and Logistics, MCPL 2013; Fortaleza, Ceara; Brazil; 11</p>

Activ.	Categoriile și restricții	Indicatori	Realizat	Cerința este indeplinită prin următoarele
				<p>September 2013, IFAC Proceedings Volumes Volume 6, Issue PART 1, 2013, Pages 337-343 (4/5 = 0,8)</p> <p>2. Radaschin A., Voda A., Minca E., Filipescu A. - <i>Task Planning Algorithm in Hybrid Assembly/Disassembly Process</i>, 14th IFAC Conference on Information Control Problems in Manufacturing, (INCOM 2012), May 23-25, 2012, Bucharest, ISSN: 1474-6670; ISBN: 978-3-902661-98-2, pp. 267-272, IFAC Proceedings Volumes (4/5 = 0,8)</p> <p>3. ZHOU, Z., DAI, G., CAO, J., & GUO, G. (2016). A Novel Application of PSO Algorithm to Optimize the Disassembly Equipment Layout of ELV. <i>International Journal of Simulation Systems, Science & Technology</i>, 17(46). 161-165 (4/5 = 0,8)</p> <p>4. Tourassis, V. D. (2014). Mechanical Disassembly of End-of-Life Products. In <i>Applied Mechanics and Materials</i> (Vol. 527, pp. 277-280). Trans Tech Publications (4/5 = 0,8)</p> <p>VII. Minca E., Dragomir F., Dragomir O., Enache A. - <i>Temporal Recurrent Modelling Applied to Manufacturing Flexible Lines Served by Collaborative Robots</i>, Proceedings of the 8th Asian Control Conference (ASCC2011), pp. 749-754, May 15-18, 2011, Kaohsiung, Taiwan</p> <p>1. Mhalla A., Collart Dutilleul S., Benrejeb M. - <i>Monitoring of packaging machine using synchronized fuzzy petri nets</i>, 6th IFAC/ACM Conference on Management and Control of Production and Logistics, MCPL 2013; Fortaleza, Ceara; Brazil; 11 September 2013, IFAC Proceedings Volumes Volume 6, Issue PART 1, 2013, Pages 337-343 (4/4 = 1)</p> <p>VIII. Minca E., Dragomir O., Brezeanu I., Dragomir F. - <i>Improvement of recurrent fuzzy detection/diagnosis functions modeling. A temporal modeling application for fault states in a manufacturing system</i>, Proceedings of the 8th IEEE International Conference on Control & Automation (ICCA'10), pg. 1456-1461, 9-11 June 2010, Xiamen, China</p> <p>1. Mhalla A., Collart Dutilleul S., Benrejeb M. - <i>Monitoring of packaging machine using synchronized fuzzy petri nets</i>, 6th IFAC/ACM Conference on Management and Control of Production and Logistics, MCPL 2013; Fortaleza, Ceara; Brazil; 11 September 2013, IFAC Proceedings Volumes Volume 6, Issue PART 1, 2013, Pages 337-343 (4/4 = 1)</p> <p>IX. Dragomir F., Dragomir O.E. - <i>Improvement of energy consume from hybrid systems integrating renewable energy sources</i>, Renewable and Sustainable Energy II, PTS 1-4, Book Series: Advanced Materials Research, Volume: 512-515, Pages: 1147-1150, 2012</p> <p>1. Jia, Y., Wang, C., Zhang, C., & Li, W. (2017). Numerical Modelling of Radiation-Convection Coupling of Greenhouse Using Underfloor Heating. <i>Open Journal of Fluid Dynamics</i>, 7(03), 448. (4/2 = 2)</p> <p>X. Dragomir O.E., Dragomir F., Stefan V. - <i>Guideline to choose a forecasting tool with fuzzy logic support</i>, Proceedings of the 8th IEEE Conference on Industrial Electronics and Applications (ICIEA 2013), Book Series: IEEE Conference on Industrial Electronics and Applications, Melbourne, Australia, 19 – 21 Iunie 2013, Page(s): 595 – 600</p> <p>1. Stamatescu I., Stamatescu G., Arghira N., Fagarasan I., Iliescu, S. S. - <i>Fuzzy decision support system for solar tracking optimization</i>, 2014 International Conference on Development and Application Systems (DAS), pp. 16-20, 2014, DOI: 10.1109/DAAS.2014.6842420 (4/3 = 1.33)</p> <p>XI. Soare C., Iliescu S.St., Tudor V., Fagarasanu I., Dragomir O., Dragomir F. - <i>Proiectarea asistata de calculator in Matlab si Simulink. Conducerea avansata a proceselor</i>, Editura Agir, Bucuresti, ISBN 973-720-092-6978-973-720-092-1, 2006</p> <p>1. Tudor V.I. - <i>A hybrid genetic algorithm for optimal power flow in electrical distribution networks</i>, IFAC Workshop on Intelligent Control Systems, WICS2010; Sinaia; Romania; 29 September 2010, Volume 8, Issue PART 1, 2010, Pages 92-97 (4/6 = 0.66)</p> <p>2. Tudor V. - <i>Optimal loss reduction of distribution networks using a refined genetic algorithm</i>, (2010) UPB Scientific Bulletin, Series C: Electrical Engineering, Volume 72, Issue 3, 2010, Pages 29-38 (4/6 = 0.66)</p> <p>XII. Dragomir O.E., Dragomir F. - <i>Integrated solutions based on neural networks for optimizing energy management in a microgrid</i>,</p>

Activ.	Categoriile și restricții	Indicatori	Realizat	Cerința este indeplinită prin următoarele
				<p>The 4th International Symposium on Electrical and Electronics Engineering, 11 - 13 October 2013, Galati, Romania</p> <p>1. Pramana, P. A. A., Kusuma, A. A., Priambodo, N. W., & Munir, B. S. (2017, October). Investigation for an isolated solar plant failure in Indonesia. In High Voltage Engineering and Power Systems (ICHVEPS), 2017 International Conference on (pp. 127-130). IEEE (4/2 = 2)</p> <p>XIII. Dragomir F., Patric P.C., Dragomir O.E. - <i>Intelligent Robot with Microcontroller for Avoiding Obstacles</i>, The 5th International Conference on Robotics and Automation Systems, Book Series: Solid State Phenomena, Volume: 166-167, Pages: 179-184, 2010</p> <p>1. Patric, P. C., Pascale, L., & Măntescu, G. (2014). Mobile robot powered by solar cells. In Applied Mechanics and Materials (Vol. 681, pp. 96-99). Trans Tech Publications. (4/3 = 1.33)</p> <p>XIV. Dragomir O.E., Dragomir F., Radulescu M. - <i>Matlab Application of Kohonen Self- Organising Map to Classify Consumers' Load Profiles</i>, Procedia Computer Science, Volume 31, Pages 474–479, 2014</p> <p>1. Galutira, E. F., Fajardo, A. C., & Medina, R. P. (2019). A Novel Kohonen Self-organizing Maps Using Exponential Decay Average Rate of Change for Color Clustering. In <i>Intelligent and Interactive Computing</i> (pp. 23-33). Springer, Singapore (4/3 = 1.33)</p> <p>2. Allocca, L., Montanaro, A., Amoresano, A., Langella, G., Niola, V., & Quaremba, G. (2017). Chaos Theory Approach as Advanced Technique for GDI Spray Analysis (No. 2017-01-0839). SAE Technical Paper (4/3 = 1.33)</p> <p>3. Hazrati-Yadkori, S., & Datta, B. (2017). Adaptive Surrogate Model Based Optimization (ASMBO) for Unknown Groundwater Contaminant Source Characterizations Using Self-Organizing Maps. <i>Journal of Water Resource and Protection</i>, 9(02), 193 (4/3 = 1.33)</p> <p>4. Lamjiak, T., Polvichai, J., & Varnakovid, P. (2016, December). A geometrical data classification using Self-Organizing map with fixed possible matching units. In <i>2016 International Computer Science and Engineering Conference (ICSEC)</i> (pp. 1-6). IEEE (4/3 = 1.33)</p> <p>XV. Dragomir O.E., Dragomir F., Stefan V., Minca E. - <i>Adaptive Neuro-Fuzzy Inference Systems as a Strategy for Predicting and Controlling the Energy Produced from Renewable Sources</i>, <i>Energies</i>, 8(11), pp. 13047-13061, 2015</p> <p>1. Elkazaz, M., Sumner, M., & Thomas, D. (2020). Energy management system for hybrid PV-wind-battery microgrid using convex programming, model predictive and rolling horizon predictive control with experimental validation. <i>International Journal of Electrical Power & Energy Systems</i>, 115, 105483 (4/4 = 1)</p> <p>2. Sinha, J., & Kant, S. Performance Tuning and Evaluation of Fuzzy Agent Model using ANFIS for Consumer-Relationship Management, <i>International Journal of Engineering Research and Technology</i>. ISSN 0974-3154 Volume 11, Number 12 (2018), pp. 2183-2197 (4/4 = 1)</p> <p>3. Santos-Herrero, J. M., Lopez-Guede, J. M., & Flores, I. (2018). Analysis of New Strategies to Reach Nearly Zero Energy Buildings (nZEBs). In <i>Multidisciplinary Digital Publishing Institute Proceedings</i> (Vol. 2, No. 23, p. 1437). (4/4 = 1)</p> <p>4. Santos-Herrero, J. M., Lopez-Guede, J. M., & Flores, I. (2017). A Short review on the use of renewable energies and model predictive control in buildings. <i>Journal of Energy Systems</i>, 1(3), 112-119. (4/4 = 1)</p> <p>XVI. Dragomir F., Dragomir O.E., Ivan M.E., Iliescu S.St., Stănescu I. - <i>Optimal embedded system for two-axis tracking PV panels</i>, <i>Journal of Applied and Physical Sciences</i>, vol. 3(1), pp. 1-6, 2017</p> <p>1. Akbar H. S., Siddiq A. I., & Aziz M. W. (2017). <i>Microcontroller based dual axis sun tracking system for maximum solar energy generation</i>. <i>American Journal of Energy Research</i>, 2017, Vol. 5, No. 1, pp. 23-27 (4/5 = 0.8)</p> <p>XVII. Dragomir O.E., Dragomir F. - <i>Decision support system integrating fuzzy logic and expert system for optimization of smart grid functioning</i>, <i>Proceedings of International Conference on Control, Decision and Information Technologies (CoDIT 2016)</i>, 6-8 April</p>

Activ.	Categoriile și restricții	Indicatori	Realizat	Cerința este îndeplinită prin următoarele
				<p>2016</p> <ol style="list-style-type: none"> Calofir, V., Fagarasan, I., Arghira, N., Simoiu, M. S., Stamatescu, G., Nichiforov, C., & Iliescu, S. S. (2019, May). Simulator for Automation and Control Systems in a Power System. In <i>2019 22nd International Conference on Control Systems and Computer Science (CSCS)</i> (pp. 369-374). IEEE. (4/2 = 2) Khare, V., Khare, C. J., Nema, S., & Baredar, P. (2018). Analysis and assessment of smart grid: a review. <i>International Journal of Smart Grid and Green Communications</i>, 1(4), 329-362. (4/2 = 2) Pawar, S., & Momin, B. F. (2017, July). <i>Smart electricity meter data analytics: A brief review</i>. In IEEE Region 10 Symposium (TENSYP), 2017 (pp. 1-5). IEEE. (4/2 = 2) <p>XVIII. Dragomir O., Dragomir F. - <i>NN based Support System for Renewable Energy Forecasting and Integration</i>, Proceedings of the International Conference on Automation, Quality and Testing, Robotics (AQTR 2014), Page(s): 1 – 6, 22-24 May 2014, Cluj-Napoca, Romania</p> <ol style="list-style-type: none"> Ionescu M. A., Iliescu S. S., Arghira N., Fagarasan I. (2016, May). <i>PV module behavior model for different external factors conditions</i>. In Automation, Quality and Testing, Robotics (AQTR), 2016 IEEE International Conference on (pp. 1-6). IEEE. (4/2 = 2) <p>XIX. Stanescu I.A., Stefan A., Stefan D., Dragomir F., Olariu N., Dragomir O.E. - <i>Intelligent decision support for Renewable Energy Providers</i>, Proceedings of the 2014 International Conference on Control, Decision and Information Technologies (CoDIT2014), Page(s): 488 – 492, 2014</p> <ol style="list-style-type: none"> Afaf D., Ouhbi, B. (2015). <i>Towards an Intelligent Decision Support System Based on the Multicriteria K-means Algorithm</i>. International Journal of Computer Science and Information Security, 13(10), 98 (4/6 = 0.66) <p>XX. Dragomir F., Dragomir O.E., Olariu N., Oprea A. – <i>Dedicated software application for modeling and simulation of photovoltaic systems</i>, Scientific Bulletin of Electrical Engineering Faculty, Year 13, nr. 3 (23), Pages: 5-9, 2013</p> <ol style="list-style-type: none"> Kim, S., Song, J., & Lim, H. (2017). Conceptual feasibility studies of a CO X-free hydrogen production from ammonia decomposition in a membrane reactor for PEM fuel cells. <i>Korean Journal of Chemical Engineering</i>, 1-8 (4/4 = 1) <p>XXI. Dragomir F., Dragomir O.E. - <i>Distributed Power Generation from Renewable Energy Resources</i>, Proceedings of UKSim-AMSS 6th European Modelling Symposium on Mathematical Modelling and Computer Simulation (EMS2012), 14 – 16 November 2012, Valletta, Malta, Page(s): 299 - 304, 2012</p> <ol style="list-style-type: none"> Motalleb, M., Sreedarsan, S., & Ghorbani, R. <i>Power grid reliability improvement through forecasting with complex-valued neural networks under system contingency</i>. American Journal of Engineering Research (AJER), Volume-6, Issue-7, pp-106-122, 2017 (4/2 = 2)
A3.2	Membri în colectivele de redacție sau comitetele științifice ale revistelor indexate ISI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor științifice internaționale indexate ISI		10	-
A3.3	Membri în colectivele de redacție sau comitetele științifice ale revistelor indexate BDI, chair, co-chair sau membru în comitetele de organizare		6	

Activ.	Categoriile și restricții	Indicatori	Realizat	Cerința este îndeplinită prin următoarele
	ale manifestărilor științifice internaționale indexate BDI			
A3.4	Premii în domeniu conferite de Academia Română, ASTR, AOSR, sau premii internaționale de prestigiu	15	105	<p>1. Premiul IEEE Robotics and Automation Society, Premiul I în cadrul concursului 2015 Mobile Microrobotics Challenge secțiunea "MMC Showcase & Poster Session Winner": Title: MicRoMag – An Open Source Microrobotic Project UVT Romania: Florin Dragomir, Ioan Alexandru Ivan, Mihaela Ivan, Valentin Gurgu, Nicolae Rădulescu Concursul a fost desfășurat în cadrul conferinței "The International Conference on Robotics and Automation (ICRA)", Seattle, WA, USA, May 26-30, 2015</p> <p>2. Premiul IEEE Robotics and Automation Society, Premiul I în cadrul concursului 2016 Mobile Microrobotics Challenge secțiunea "Autonomous Mobility & Accuracy Challenge": Title: MicRoMag – An Open Source Microrobotic Project UVT Romania: Florin Dragomir, Ioan Alexandru Ivan, Ioana Dulama, Valentin Gurgu, Alin Bucurică, Nicolae Rădulescu Concursul a fost desfășurat în cadrul conferinței "The International Conference on Robotics and Automation (ICRA)", Stockholm, Sweden, May 16-21, 2016</p> <p>3. Premiul IEEE Robotics and Automation Society, Premiul I în cadrul concursului 2016 Mobile Microrobotics Challenge secțiunea "Best in Show": Title: MicRoMag – An Open Source Microrobotic Project UVT Romania: Florin Dragomir, Ioan Alexandru Ivan, Ioana Dulama, Valentin Gurgu, Alin Bucurică, Nicolae Rădulescu Concursul a fost desfășurat în cadrul conferinței "The International Conference on Robotics and Automation (ICRA)", Stockholm, Sweden, May 16-21, 2016</p> <p>4. Premiul IEEE Robotics and Automation Society, Premiul I în cadrul concursului 2017 Mobile Microrobotics Challenge secțiunea "Microassembly Challenge": Title: RoBoCell – Mobile microrobotic system for single-cell manipulation and sorting UVT Romania: Florin Dragomir, Ioan Alexandru Ivan, Ioana Dulama, Valentin Gurgu, Alin Bucurică, Nicolae Rădulescu Concursul a fost desfășurat în cadrul conferinței "The International Conference on Robotics and Automation (ICRA)", Singapore, 29 May – 3 June, 2017</p> <p>5. Premiul IEEE RAS Micro/Nano Robotics & Automation (MNRA), Premiul I în cadrul concursului 2018 Mobile Microrobotics Challenge secțiunea "Autonomous Mobility & Accuracy Challenge": Title: RoBoCell – Mobile microrobotic system for single-cell manipulation and sorting UVT Romania: Florin Dragomir, Ioan Alexandru Ivan, Ioana Dulama, Valentin Gurgu, Alin Bucurică, Nicolae Rădulescu Concursul a fost desfășurat în cadrul conferinței "The International Conference on Robotics and Automation (ICRA)", Brisbane, Australia, 21 - 25 May, 2018</p> <p>6. Premiul IEEE RAS Micro/Nano Robotics & Automation (MNRA), Premiul I în cadrul concursului 2018 Mobile Microrobotics Challenge secțiunea "Microassembly Challenge": Title: RoBoCell – Mobile microrobotic system for single-cell manipulation and sorting UVT Romania: Florin Dragomir, Ioan Alexandru Ivan, Ioana Dulama, Valentin Gurgu, Alin Bucurică, Nicolae Rădulescu Concursul a fost desfășurat în cadrul conferinței "The International Conference on Robotics and Automation (ICRA)", Brisbane, Australia, 21 - 25 May, 2018</p> <p>7. Premiul IEEE RAS Micro/Nano Robotics & Automation (MNRA), Premiul I în cadrul concursului 2018 Mobile Microrobotics Challenge secțiunea "MMC Showcase & Poster Session Winner": Title: RoBoCell – Mobile microrobotic system for single-cell manipulation and sorting UVT Romania: Florin Dragomir, Ioan Alexandru Ivan, Ioana Dulama, Valentin Gurgu, Alin Bucurică, Nicolae Rădulescu</p>

Activ.	Categorii și restricții	Indicatori	Realizat	Cerința este îndeplinită prin următoarele
				Concursul a fost desfășurat în cadrul conferinței "The International Conference on Robotics and Automation (ICRA)", Brisbane, Australia, 21 - 25 May, 2018
A3. Recunoașterea și impactul activității			362	<p>Condiții minimale pentru A3: 150 Realizat A3: 362</p> <p>Condiții minimale obligatorii pe subcategorii: A3.1.1 Număr de citări în cărți, reviste cotate ISI și volume ale unor manifestări științifice ISI (WOS): 25 Realizat: 68</p>
	Factor de impact cumulat pentru publicații	pentru volumele manifestărilor ISI se considera factorul de impact echivalent 0.25		<p>Condiții minimale obligatorii pe subcategorii: <i>Factor de impact ISI cumulat pentru publicații</i> (Se consideră factorul de impact ISI al revistei valabil în anul publicării sau la data depunerii dosarului. Pentru volumele manifestărilor ISI se consideră factorul de impact echivalent 0.25. Pentru volumele conferințelor internaționale de top în domeniul de abilitare se consideră factorul de impact echivalent 0.75 (lista acestora agreată și ținută la zi de comisia CNATDCU nr.15 fiind disponibilă la adresa www.cnatdco-c15.org): 10 Realizat: 14,401 Factor Impact = 3.302 + 2.436 + 0.913 + 0.75 + (28*0.25) = 7,401 + 7 = 14,401</p>