UNIVERSITATEA din Piteşti

Facultatea de Electronica, Comunicatii si Calculatoare

Departamentul de Electronica, Calculatoare si Inginerie Electrica

Rezultatele activităţilor de cercetare la nivel de departament

în anul 2014

I.   Cărţi şi capitole în cărţi publicate în anul 2014

I.1. Cărţi şi capitole în cărţi de specialitate internaţionale ca autor (cu ISBN extern)

1.   Robert Cristian Beloiu, Mariana Iorgulescu, Corina Savulescu, *Chapter 13. Dynamic Response of Electric Machines for Electric Vehicles/Hybrid Electric Vehicles (EV/HEV),* Editors: N. Bizon, L. Dascalescu, and N. M. Tabatabaei (Ed.), Autonomous Vehicles: Intelligent Transport Systems and Smart Technologies, Nova Science Publishers Inc., USA, 2014,   ISBN: 978-1-63321-324-1, pp.353-378https://www.novapublishers.com/catalog/product_info.php?products_id=50365&osCsid=,   2014, (TC_11_2014_DECIE, TC_12_2014_DECIE)

2.   Nicu Bizon, Marian Raducu, Mihai Oproescu and Luminita Mirela Constantinescu, *Energy Efficiency of the Hybrid Power Source Used in the Plug-In Fuel Cell Vehicles,* Chapter 12. Energy Efficiency of the Hybrid Power Source Used in the Plug-In Fuel Cell Vehicles, pp.313-352 In N. Bizon, L. Dascalescu, and N. M. Tabatabaei (Ed.), 2014, Autonomous Vehicles: Intelligent Transport Systems and Smart Technologies, Nova Science Publishers Inc., USA, ISBN: 978-1-63321-324-1, 541 pages, https://www.novapublishers.com/catalog/product_info.php?products_id=50365&osCsid=756a848447 737596b96d62aa86a64cba, 2014, (TC_5_2014_DECIE, TC_11_2014_DECIE)

3.   Cornel Ioana, Angela Digulescu, Alexandru Serbanescu, Ion Candel, Florin-Marian Birleanu, *Recent Advances in Non-stationary Signal Processing Based on the Concept of Recurrence Plot Analysis,* chapter in "Translational Recurrences. From Mathematical Theory to Real-World Applications" (Editors: Norbert Marwan, Michael Riley, Alessandro Giuliani, Charles L. Webber, Jr.), ISBN: 978-3-319-09530-1 (Print) 978-3-319-09531-8 (Online), series "Springer Proceedings in Mathematics & Statistics", vol. 103, pp. 75-93, 2014, (TC_5_2014_DECIE)

I.2. Cărţi şi capitole în cărţi de specialitate naţionale ca autor (cu ISBN intern)

1.   C.I. Rîncu, V.G. Iana, *Implementarea modulelor digitale cu structuri reprogramabile,* ISBN 978-973-640-234-0, 189 pagini, Editura Academiei Tehnice Militare, 2014, (TC_15_2014_DECIE)

2.   Bostan Ionel, *Circuite logice combinationale - teorie si aplicatii,* Editura Matrix ROM, Bucureşti, ISBN 978-606-25-0098-6, 2014, 2014, (TC_2_2014_DECIE)

I.3. Îndrumare de laborator, culegere de probleme

1. Robert Cristian Beloiu, *Lucrari practice de Actionari Electrice cu Logica Cablata,* Ed. Upit, 2014, e-ISBN: 978-606-560-378-3, 300 pag.
http://tinread.upit.ro/opac/bibliographic_view/143196?pn=opac%2FSearch&q=beloiu+robert#level=all&location=0&ob=asc&q=beloiu+robert&sb=relevance&start=0&view=CONTENT, 2014

2. Gheorghe Serban, Marian Răducu, Ionel Bostan, Alin Mazare, Ioan Lita, Alexandru Ene, Luminita Mirela Constantinescu, Valeriu Ionescu, Adrian Zafiu, Daniel Alexandru Visan, Constantin Stoica, Mariana Iorgulescu, *Intrebări de verificare a cunostintelor pentru finalizarea studiilor,* 194 pg. , e-ISBN: 978-606-560-383-7, Ed. Universitatii din Pitesti, Pitesti, 2014, 2014

3. Alexandru Ene, *Inginerie software pentru conducerea proceselor industriale. Lucrări de laborator,* Editura Universității din Pitești, ISBN 978-606-560-377-6, 2014, 2014, (TC_6_2014_DECIE)

4. Dumitru Cazacu, *Indrumar laborator Compatibilitate electromagnetica,* Ed.Sitech Craiova 2014 120 p., 2014

II. Lucrări (articole) ISI / BDI publicate în anul 2014

II.1. Articole în reviste cotate ISI Thomson Reuters

1. N. Bizon, *Tracking the maximum efficiency point for the FC system based on extremum seeking scheme to control the air flow,* Applied Energy 129 (15 September 2014) 147–157.http://dx.doi.org/10.1016/j.apenergy.2014.05.002 WOS:000339775400016, 2014, (TC_5_2014_DECIE, TC_2_2014_DECIE)

2. N. Bizon, *Improving the PEMFC energy efficiency by optimizing the fuelling rates based on extremum seeking algorithm,* International Journal of Hydrogen Energy 39(20) (3 July 2014), 10641–10654.http://dx.doi.org/10.1016/j.ijhydene.2014.04.194 WOS:000338388200032, 2014, (TC_5_2014_DECIE, TC_2_2014_DECIE)

3. N. Bizon, *Load-following Mode Control of a Standalone Renewable/Fuel Cell Hybrid Power Source,* Energy Conversion Management 77 (January 2014) 763–772.http://dx.doi.org/10.1016/j.enconman.2013.10.035 WOS:000330494600080, 2014, (TC_5_2014_DECIE, TC_2_2014_DECIE)

4. G.A. Iordachescu, J. Jacquet, *Synthesis of Resonant Cavities having Continuum Spectra by Genetic Algorithm,* Optik - International Journal for Light and Electron Optics, Volume 125, Issue 18, pag. 5264–5267, ISI Impact Factor 2013: 0,76; doi: 10.1016/j.ijleo.2014.06.050, 2014, (TC_3_2014_DECIE)

II.2. Articole în volume indexate ISI Proceedings

1. Iorgulescu, Mariana,Beloiu, Robert, *Faults diagnosis for electrical machines based on analysis of motor current,* Book Group Author(s): IEEE, Conference: International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) Location:ROMANIA Date: MAY 22-24, 2014 ,Sponsor(s): IEEE Ind Elect Soc; IEEE Ind Applicat Soc; IEEE Power Elect Soc; Transilvania Univ Brasov,2014

INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT (OPTIM) Pages: 291-297 Published: 2014, 2014, (TC_11_2014_DECIE)

2. I. Bogdan, N. Bizon, M. Oproescu, *On the Chaotic and Periodic Behavior of the Power Converter - Part I: The Mathematical Modeling,* Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'14, No. 1, pp. 61-64, Bucharest, ISSN 1843–2115, WOS:000380489500080http://ieeexplore.ieee.org/document/7090148/, 2014, (TC_2_2014_DECIE, TC_15_2014_DECIE)

3. M. Raceanu, A. Marinoiu, M. Culcer, M. Varlam, N. Bizon, *Preventing Reactant Starvation of a 5 KW PEM Fuel Cell Stack during sudden Load Change,* Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'14, No. 1, pp. 55-60, ISSN 1843–2115, WOS:000380489500076http://ieeexplore.ieee.org/document/7090147/, 2014, (TC_1_2014_DECIE, TC_11_2014_DECIE)

4. N. Bizon, M. Raducu, M. Oproescu, L. M. Constantinescu, *Energy efficiency of the PV panels using a MPPT controller with improved search speed - Part I: Modeling of the PV power system under extremum seeking control,* Int. Conf. on Applied Electronics 2014 - APPEL'14, Pilsen, CZ, ISSN : 1803-7232, Print ISBN: 978-1-4673-1963-8, WOS:000375940400010http://ieeexplore.ieee.org/document/7011665/, 2014, (TC_5_2014_DECIE, TC_11_2014_DECIE)

5. N. Bizon, M. Raducu, M. Oproescu, L. M. Constantinescu, *Energy efficiency of the PV panels using a MPPT controller with improved search speed - Part II: Simulation results,* Int. Conf. on Applied Electronics 2014 - APPEL'14, Pilsen, CZ, ISSN : 1803-7232, Print ISBN: 978-1-4673-1963-8, WOS:000375940400011http://ieeexplore.ieee.org/document/7011666/, 2014, (TC_5_2014_DECIE, TC_11_2014_DECIE)

6. I. Bogdan, N. Bizon, M. Oproescu, *On the Chaotic and Periodic Behavior of the Power Converter - Part II: The Simulation Result,* Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'14, No. 1, pp. 64-67, Bucharest, ISSN 1843–2115, WOS:000380489500082http://ieeexplore.ieee.org/document/7090149/, 2014, (TC_5_2014_DECIE, TC_9_2014_DECIE)

7. Emilian Lefter, Bogdan-Adrian Enache, Luminiţa-Mirela Constantinescu, Constantin Stoica, *Aspects of simulating the behaviour of an internal combustion engine for electric starter testing,* Proceedings of the International Conference on Electronics, Computers and Aritificial Inteligence – ECAI 2014, vol. 6, no. 3/2014, pp. 35-38, 2014, (TC_11_2014_DECIE)

8. Cristian Hoarcă, Marian Răducu, Luminita-Mirela Constantinescu, *Energy Efficiency Analysis of Various Topologies, Control Techniques and Technologies Used for Photovoltaic Part II: Maximum Power Point Tracking Algorithms,* The 6th edition of the International Conference. Electronics, Computers and Artificial Intelligence, ECAI 2014, Bucharest, Romania, pp. 39-44, vol. 6, 2014, ISSN – 1843 – 2115, (5 – IETTI). http://ieeexplore.ieee.org/document/7090219/, 2014, (TC_5_2014_DECIE)

9. Enache, Bogdan-Adrian; Diaconescu, Eugen, *Estimating a battery State of Charge using neural networks,* International Symposium on Fundamentals of Electrical Engineering (ISFEE) Location: Univ Politehn Bucharest, Bucharest, ROMANIA Date: NOV 28-29, 2014., 2014, (TC_11_2014_DECIE)

10.   Beloiu Robert, , Bostan Ionel, Iorgulescu Mariana, *Dynamic electronic model for a DC motor - simulation and experimental validation,* ECAI 2014; ISBN:978-1-4799-5479-7; ISSN: 2378-7147; WOS:000380489500027; Doi: 10.1109/ECAI.2014.7090190 , 2014, (TC_2_2014_DECIE)

11.   Corina SAVULESCU, Mariana IORGULESCU, *The implementation of Hamming decoder on Spartan 3,* ECAI 2014, Vol.6, No.5/2014, ISSN- 1843 – 2115 , pg. 41-44, IEEEXplore, 2014, (TC_2_2014_DECIE)

12.   Bogdan-Adrian Enache, Luminiţa-Mirela Constantinescu, Emilian Lefter, *Modeling aspects of an electric starter system for an internal combustion engine,* Proceedings of the International Conference on Electronics, Computers and Aritificial Inteligence – ECAI 2014, vol. 6, no. 3/2014, pp. 39-42, 2014, (TC_12_2014_DECIE)

13.   Cazacu Dumitru, Stoica Constantin, *Teaching computational aspects on the efficiency of the multilayer spherical magnetic shields,* ECAI 2014 - International Conference – 6th Edition, Electronics, Computers and Artificial Intelligence, 23-25 Oct.2014, Bucharest, pp.59-65, Vol. 6 – No. 4/ 2014 ISSN – 1843 – 2115, 2014, (TC_12_2014_DECIE)

14.   Stoica Constantin, Cazacu Dumitru, Leonard Melcescu, *Numerical modeling using 2D FEM for a low power dc brushless motor,* ECAI 2014 - International Conference – 6th Edition, Electronics, Computers and Artificial Intelligence, 23-25 Oct.2014, Bucharest, pp.49-53, Vol. 6 – No. 4/ 2014 ISSN – 1843 – 2115, 2014, (TC_12_2014_DECIE)

15.   D. Cazacu, Constantin STOICA., *Teaching computational aspects on the   efficiency of multi layer spherical magnetic shields   Proceedings of the International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE ECAI-2014,   Vol. 6 – No. 4/ 2014 ISSN – 1843 &ndas,* , 2014, (TC_12_2014_DECIE)

16.   Constantin Stoica, Cazacu Dumitru, Leonard Melcescu, *Numerical modeling using 2d FEM for a low power DC Brushless motor’’ . Proceedings of the International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2014, Vol. 6 – No. 4/ 2014 ISSN &,* , 2014, (TC_12_2014_DECIE)

17.   Enache, B.-A. ; Constantinescu, L.-M. ; Stoica, C., *Aspects of simulating the behavior of an internal combustion engine for electric starter testing   23-25 Oct. 2014 10.1109/ ECAI.2014. Electronics, Computers and Artificial Intelligence (ECAI), 2014 6th International Conference,* , 2014, (TC_12_2014_DECIE)

18.   LM Ionescu, A Mazare, C Anton, C Stoian, *The hardware implementation of a quantum computation system emulator,* Applied Electronics (AE), 2014 International Conference on, ISSN 1803-7232, ISBN 978-8-0261-0276-2, 121 – 124, 2014, 2014, (TC_2_2014_DECIE)

19.   Rincu, Cristian-Iulian; Iana, Vasile-Gabriel, *S-Box Design Based on Chaotic Maps Combination,* 10th International Conference on Communications (COMM), Pages: 1 – 4, Published: 2014, Bucharest, ISBN:978-1-4799-2385-4DOI: 10.1109/ICComm.2014.6866741Web of Science Categories:Engineering, Electrical & Electronic; TelecommunicationsWOS:000345844600085, 2014, (TC_15_2014_DECIE)

20.   Gabriel V. Iana, Cristian Monea, *Coin recognition system based on a neural network,* The 6th International Conference on Electronics, Computers and artificial Intelligence, Vol. 6, pag. 13-18, Published: 2014, Pitesti, ISBN:978-1-4799-5479-7, ISSN: 2378-7147DOI: 10.1109/ECAI.2014.7090172Web of

Science Categories:Computer Science, Artificial IntelligenceWOS:000380489500061, 2014, (TC_15_2014_DECIE)

21.   Rincu, Cristian-Iulian; Iana, Vasile-Gabriel, *A Modified External-Key Cryptosystem for Digital Implementation,* 9th International Conference on Communications (COMM), Pages: 307-310, Published: 2012, Bucharest, ISBN:978-1-4673-2573-8DOI: 10.1109/ICComm.2012.6262610Web of Science Categories:Engineering, Electrical & Electronic; TelecommunicationsWOS:000307808200071, 2014, (TC_15_2014_DECIE)

22.   A Mazare, L Ionescu, G Serban, I Lita, *FPGA-based system for data acquisition and remote communication,* Design and Technology in Electronic Packaging (SIITME), 2014 IEEE 20th International Symposium for, 169-174, DOI: 10.1109/SIITME.2014.6967019, 2014, 2014, (TC_9_2014_DECIE)

23.   Ioan Cristian Hoarcă, Marian Răducu, *Energy Efficiency Analysis of Various Topologies, Control Techniques and Technologies Used for Photovoltaic Part I: On The PV Modeling,* The 6th edition of the International Conference. Electronics, Computers and Artificial Intelligence, ECAI 2014, Bucharest, Romania, pp. 39-44, vol. 6, 2014, ISSN – 1843 – 2115. http://ieeexplore.ieee.org/document/7090218/, , 2014, (TC_5_2014_DECIE)

24.   Marin Radut, Marian Raducu, *On The Maximum Power Point Matching of the Photovoltaic Panels to Load Demand,* The 6th edition of the International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2014, Bucharest, Romania, pp. 59-62, vol. 3, 2014, ISSN – 1843 – 2115. http://ieeexplore.ieee.org/document/7090181/, 2014, (TC_5_2014_DECIE)

25.   Alexandru Ene, Cosmin Ştirbu, *A Java application for the selection of a weights file for a two hidden layers feed forward neural network,* ECAI 2014 (International Conference – 6th Edition Electronics, Computers and Artificial Intelligence Bucharest, Romania, 23 October -25 October 2014), Volume 3, volumul 3, pp 9-12, 2014WOS:000380489500059, 2014, (TC_7_2014_DECIE, TC_6_2014_DECIE)

26.   Anghelescu Petre, Angelescu Stefan, Ionita Silviu, *Real-time Audio Effects with DSP Algorithms and DirectSound,* The 6th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2014, Vol. 5, Number 5/2014, ISSN – 1843 – 2115, pp. 35 – 40, Bucharest, 23 – 25 October 2014., 2014, (TC_6_2014_DECIE)

27.   Misztal, A, Butlewski, M, Belu, N, Ionescu, LM, *Creating involvement of production workers by reliable technical maintenance,* 2014 International Conference On Production Research - Regional Conference Africa, Europe And The Middle East And 3rd International Conference on Quality and Innovation in Engineering and Management (Icpr-Aem 2014), pp. 322-327, ISBN:978-973-662-978-5, 2014, 2014, (TC_6_2014_DECIE)

28.   Petre Anghelescu, Cosmin Ştirbu, *Cellular Automata Based Algorithm for Image Density Classification Task,* ECAI 2014 (International Conference – 6th Edition Electronics, Computers and Artificial Intelligence Bucharest, Romania, 23 October -25 October 2014), Volume 3, volumul 3, pp 5-8, 2014WOS:000380489500057, 2014, (TC_8_2014_DECIE, TC_7_2014_DECIE)

II.3. Articole în reviste şi volumele unor manifestări ştiinţifice indexate în alte baze de date internaţionale

1. Valeriu M. Ionescu, Adrian-Viorel Diaconu, *Comparing Local and Remote Sensor Data Processing for Shape Detection Systems,* International Journal of Sensors, Wireless Communications and Control, ISSN: 2210-3287, Volume 4, Number 2, 2014, Pp. 88-95, Index Scopus, https://benthamscience.com/journals/international-journal-of-sensors-wireless-communications-and-control/, 2014, (TC_10_2014_DECIE)

2. Valeriu Manuel IONESCU, *SYSTEM FOR MONITORING A FLEET OF ANDROID DEVICES USING TWO WAY MESSAGE QUEUING,* Universitity of Pitesti Scientific Bulletin, Series: Electronics and computers science Vol. 2 / 2014, pg. 17-20, ISSN: 1453-1119, Indexare Index Copernicus, 2014, (TC_10_2014_DECIE)

3. Mariana Iorgulescu, Robert Cristian Beloiu, *Faults diagnosis for electrical machines based on analysis of motor current,* Internaţional Conference on Optimization of Electrical and Electronic Equipment (OPTIM) Location: ROMANIA Date: MAY 22-24, 2014Sponsor(s): IEEE Ind Elect Soc; IEEE Ind Applicat Soc; IEEE Power Elect Soc;Transilvania Univ Brasov2014 INTERNATIONAL CONFERENCEhttp://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full_record.do?product= WOS&search_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=1&cacheurlFromRight Click=no, 2014, (TC_11_2014_DECIE, TC_12_2014_DECIE)

4. R. Beloiu, I. Bostan, M. Iorgulescu, *Internationalization of educational programs through European projects,* The 6th International Conference Edu World 2014 "Education Facing Contemporary World Issues", 7th - 9th November 2014; http://www.eduworld.ro/index.php?page=participants2014http://www.sciencedirect.com/science/article/pii/S 1877042815015396, 2014, (TC_11_2014_DECIE, TC_12_2014_DECIE)

5. I. Bostan, R. Beloiu, N. Bizon, *Learning digital frequency dividers through practical laboratory activities,* The 6th International Conference Edu World 2014 "Education Facing Contemporary World Issues", 7th - 9th November 2014: http://www.eduworld.ro/index.php?page=participants2014http://www.sciencedirect.com/science/article/pii/S 187704281503058X, 2014, (TC_11_2014_DECIE, TC_12_2014_DECIE)

6. R. Beloiu, *Teaching induction machine laboratory using ProjectX,* 4th WORLD CONFERENCE ON EDUCATIONAL TECHNOLOGY RESEARCHES, WCETR – 2014 http://www.sciencedirect.com/science/article/pii/S187704281503058X, 2014, (TC_11_2014_DECIE, TC_12_2014_DECIE)

7. R. Beloiu, *Dynamic determination of DC motor parameters – simulation and testing,* Proceedings of the International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2014 http://scholar.google.ro/citations?view_op=view_citation&hl=ro&user=jrrPvH8AAAAJ&sortby=pubdate&i mq=Robert+Beloiu&citation_for_view=jrrPvH8AAAAJ:_kc_bZDykSQC, 2014, (TC_11_2014_DECIE, TC_12_2014_DECIE)

8. R. Beloiu, I. Bostan, M. Iorgulescu, *Dynamic electronic model for a DC motor - simulation and experimental validation,* Proceedings of the International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2014 http://scholar.google.ro/citations?view_op=view_citation&hl=ro&imq=Robert+Beloiu&citation_for_view=jr rPvH8AAAAJ:4TOpqqG69KYC&gmla=AJsN-F7TyHbuYOFAoW4DsVlXyJKWPqAxBPRpsJNsp9gme2BauIYeaH3xoh_jh3754oimyKZEVyPzu8uSrw5d

brHtMdte3hAnN9f6bXDbgQE9qV5L3a9fgGG_biBbm, 2014, (TC_11_2014_DECIE, TC_12_2014_DECIE)

9.   Nicu Bizon, Marian Raducu, Mihai Oproescu, Luminita Mirela Constantinescu, *Energy efficiency of the PV panels using a MPPT controller with improved search speed - Part I: Modeling of the PV power system under extremum seeking control,* Int. Conf. on Applied Electronics 2014 - APPEL'14, Pilsen, CZ, ISSN : 1803-7232, Print ISBN: 978-1-4673-1963-8, 2014, (TC_1_2014_DECIE, TC_11_2014_DECIE)

10.   Nicu Bizon, Marian Raducu, Mihai Oproescu, Luminita Mirela Constantinescu, *Energy efficiency of the PV panels using a MPPT controller with improved search speed - Part II: Simulation results,* Int. Conf. on Applied Electronics 2014 - APPEL'14, Pilsen, CZ, ISSN : 1803-7232, Print ISBN: 978-1-4673-1963-8, 2014, (TC_1_2014_DECIE, TC_11_2014_DECIE)

11.   Eugen Diaconescu, Florentina Magda Enescu, *A laboratory infrastructure for the evaluation of the use of multi-agent technologies in industrial SCADA systems,* Conferinţă (Applied Mechanics and Materials), Volumul 656, pag. 432-441 (BDI: Google Scholar, Scopus), 2014, 2014, (TC_9_2014_DECIE)

12.   Dumitru Cazacu, *Theoretical and numerical aspects concerning magnetic force computation for dc solenoidal actuators,* Scientific Bulletin, Electronics and computer science Series,University of Pitesti, Vol 14, Issue 2, pp.5-8, 2014, BDI Copernicus Master List Journalhttps://docs.google.com/document/d/1xZdQ0PJwTs1q5xGwo0KqE6aD7eQ0kVE_p-FD5WnC7iU/edit, 2014, (TC_12_2014_DECIE)

13.   Bogdan-Adrian Enache, Eugen Diaconescu, *Estimating a battery State of Charge using neural networks,* Proceedings of the International Symposium on Fundamentals of Electrical Engineering , Cat. No.:CFP1493Y-ART, ISBN: 978-1-4799-6821-3, 2014, (TC_12_2014_DECIE)

14.   Cristian Spirleanu, Luige Vladareanu, Eugen Diaconescu, *An experimental framework for Multi-Agents using RTOS based robotic controllers,* Applied Mechanics and Materials Vol. 555 (2014) pp 259-266, © (2014) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.555.259, 2014, (TC_12_2014_DECIE)

15.   Cristian SPIRLEANU, Luige VLADAREANU, Eugen DIACONESCU, *Robotic platform with multiagent control system and distributed architecture,* Proc. of SISOM & ACOUSTICS, Romanian Academy, 2014, Bucharest 22-23 May, 2014, (TC_12_2014_DECIE)

16.   3. Lefter, Emilian; Enache, Bogdan-Adrian; Constantinescu, Luminita-Mirela, *Aspects of simulating the behavior of an internal combustion engine for electric starter testing,* 6th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Location: Pitesti, ROMANIA Date: OCT 23-25, 2014., 2014, (TC_12_2014_DECIE)

17.   Cristian Monea, Gabriel Iana, *Coin signal recognition based on neural networks,* Scientific Bulletin, Series "Electronics and Computers Science", vol. 14, Issue 1/2014, Pages:19-24, pISSN: 2344 – 2158, eISSN: 2344 – 2166, 2014, (TC_15_2014_DECIE)

18.   Mariana Jurian, Daniel Alexandru Visan, Ioan Lita, *The Evolution of Telecommunications in Romania,* The 41st Symposium of International Committee for the History of Technology -ICOHTEC 2014, "Technology in Times of Transition", ISBN 978-606-19-0382-5 format tipărit, ISBN 978-606-19-0391-7 format CD, pp. 285 – 292, Transilvania University of Brasov, 29 July - 2 August 2014, Brasov, Romania (ICON Journal), https://scholar.google.ro/scholar?start=0&hl=ro&as_sdt=0,5&scilib=1, 2014, (TC_3_2014_DECIE)

19.   Alexandru Ene, *A Java application for building adaptive vocabulary learning computer tests,* University of Pitesti Scientific Bulletin (Series: Electronics and Computers Science, Pitesti, 2014), Vol. 14, Issue 2, pg. 9-12, (BDI Copernicus), 2014, 2014, (TC_6_2014_DECIE)

20.   Alexandru Ene, *A Java client server application for building balanced groups,* University of Pitesti Scientific Bulletin (Series: Electronics and Computers Science, Pitesti, 2014), Vol. 14, Issue 2, pg. 13-16, (BDI Copernicus), 2014, 2014, (TC_6_2014_DECIE)

21.   N Belu, L Ionescu, *Application of Fuzzy Logic with Genetic Algorithms to FMEA Method,* Zeszytynaukowe Politechniki Poznańskie, Nr 62 Organizacja i Zarządzanie, 2014, pp. 5-19, 2014, 2014, (TC_6_2014_DECIE, TC_7_2014_DECIE)

22.   Florin-Marian Birleanu, *A Method for Translating Pseudocode to HDL via Finite Automata,* University of Pitesti Scientific Bulletin, Series: Electronics and Computers Science, vol. 14, no. 1, pp. 11-18, pISSN: 2344-2158, eISSN: 2344-2166 (BDI: Index Copernicus), 2014, (TC_6_2014_DECIE)

23.   Cosmin Ştirbu, Petre Anghelescu, *Distributed system based on neural networks to faults diagnosis,* University of Pitesti Scientific Bulletin (Series: Electronics and Computers Science, Pitesti, 2014), Vol. 14, Issue 1, pg. 1-6, (BDI Copernicus), 2014, 2014, (TC_8_2014_DECIE, TC_7_2014_DECIE)

III.   Lucrări (articole) publicate în anul 2014 în reviste şi volume de conferinţe cu referenţi (neindexate)

III.1. Articole în reviste

1.   Eugen DIACONESCU, *Protocoalele sistemelor SCADA. Standardul IEC 60870-5,* AUTOMATIZĂRI ŞI INSTRUMENTAŢIE, ISSN 1582-2334, Nr. 1/2014, pag. 19-20, 2014, (TC_11_2014_DECIE, TC_12_2014_DECIE)

IV.   Granturi / proiecte de cercetare în anul 2014

IV2. Granturi / proiecte câştigate prin competiţie naţională

1.   Iana Vasile Gabriel - Responsabil Partener, *Dezvoltarea unui senzor pentru detectia multipla si selectiva a unor explozibili reprezentativi,* Perioada de derulare 2014 –2016, Finantat de UEFISCDI, contract PN-II-PCCA-2013-4-0474., 2014, (TC_15_2014_DECIE)

2.   Silviu Ionita, *Utilizarea metodei rezonantei quadripolare nucleare la producerea de echipamente pentru detectia explozivilor si drogurilor – DESMTEH,* POS CCE, Axa prioritara 2 – Competitivitate prin CDI, Operatiunea 2.3.3: Promovarea inovarii in cadrul intreprinderilor (Coordonator: MIRA Technologies Group)(https://www.agerpres.ro/ots/2016/02/03/mira-technolgies-group-premiera-in-antidetectia-explozibililor-12-07-57)Echipa (FECC): Silviu Ionita, Gabriel Iana, Laurentiu Ionescu2*2ani=4, 2014, (TC_2_2014_DECIE, TC_4_2014_DECIE)

IV.3. Contracte de cercetare cu mediul socio-economic

1. F.M. Birleanu, G. Serban, G.A. Iordachescu, *Recognition and classification of surfaces and structures. Evaluation and creation of specific algorithms in order to be integrated into industrial image processing systems,* Beneficiar: S.C. DPR Draexlmaier Procese de Productie Romania S.R.L. (Romania), Contract: 5/21.01.2014 (DPR); 4/24.01.2014 (UPIT) / Durata: februarie 2014 - decembrie 2014 (valoare UPIT=20744 euro), 2014, (TC_13_2014_DECIE)

2. Gabriel Iana, G. Serban, P. Anghelescu, *Test of speaker system regarding feasability, quality and cost. Theoretical evaluation & documentation of concept* – Contract nr.4/24.01.2014, Beneficiar: S.C. DPR Draexlmaier Procese de Productie Romania S.R.L. (Romania), Durata: februarie 2014 - decembrie 2014 (21194,68 Euro)

UNIVERSITATEA din Piteşti

Facultatea de Electronica, Comunicatii si Calculatoare

Departamentul de Electronica, Calculatoare si Inginerie Electrica

Sinteza rezultatelor activităţilor de cercetare în anul 2014 la nivel de departament

Categoria / subcategoria activităţii de cercetare ştiinţifică	2014	Total
I. Cărţi şi capitole în cărţi		
I.1 de specialitate, internaţionale (autor)	3	3
I.2 de specialitate, naţionale (autor)	2	2
I.3 Îndrumare de laborator, culegere de pb.	4	4
II. Lucrări (articole) ISI / BDI		
II.1 în reviste cotate ISI	4	4
II.2 în volume indexate ISI Proceedings	28	28
II.3 în reviste /volumele unor manifestări ştiinţifice indexate BDI	23	23
III. Lucrări (articole) neindexate		
III.1 în reviste	1	1
IV. Granturi / proiecte de cercetare		
IV.2 câştigate prin competiţie naţională	2	2
IV.3 cu mediul socio-economic	2	2

Data: 30.03.2017