

UNIVERSITATEA din Pitești

Facultatea de Electronica, Comunicatii si Calculatoare

Departamentul de Electronica, Calculatoare si Inginerie Electrica

Rezultatele activităților de cercetare la nivel de departament în anul 2016

I. Cărți și capitole în cărți publicate în anul 2016

I.1. Cărți și capitole în cărți de specialitate internaționale ca autor (cu ISBN extern)

1. Adrian-Viorel Diaconu, Valeriu Manuel Ionescu, Jose Manuel Lopez-Guede, *Security Analysis of a New Bit-Level Permutation Image Encryption Algorithm*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 595-606, 2016, (TC_10_2016_DECIE)
2. Valeriu Manuel Ionescu, Jose Manuel Lopez-Guede, *Comparing Google Cloud and Microsoft Azure platforms for undergraduate laboratory use*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 795-802, 2016, (TC_10_2016_DECIE)
3. Valeriu Manuel Ionescu, Alexandru-Catalin Petrini, *Virtualization laboratory for Computer Networks at undergraduate level*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 776-784, 2016, (TC_10_2016_DECIE)
4. Alexandru-Catalin Petrini, Valeriu Manuel Ionescu, *Study of Huffman coding performance in Linux and Windows 10 IoT for different frameworks*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 766-775, 2016, (TC_10_2016_DECIE)
5. Jose Manuel Lopez-Guede, Erol Kurt, Necmi Altin, Manuel Graña, Valeriu Ionescu, *Erasmus Innovative European Studies*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 758-765, 2016, (TC_10_2016_DECIE)

6. Valeriu Manuel Ionescu, Cosmin Stirbu, Florentina Magda Enescu, *Using the Phone's Light Sensor to Detect the TV Video Stream*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 785-794, 2016, (TC_9_2016_DECIE)
7. Florentina-Magda Enescu, Cosmin Știrbu, Valeriu Ionescu, *SCADA network system for the monitoring and control of an electrical installation supplied by a hydro-generator*, International Joint Conference SOCO'16-CISIS'16-ICEUTE'16: San Sebastián, Spain edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado Springer: ISBN 978-3-319-47363-5 (Book) ISBN 978-3-319-47364-2 (eBook) SCADA network system for the monitoring and control of an electrical installation supplied by a hydro-generator, SOCO2016 (11th International Conference on Soft Computing Models in Industrial and Environmental Applications, SAN SEBASTIAN, SPAIN, 19th – 21st October 2016), pp. 156-166, (BDI SPRINGER), 2016, 2016, (TC_9_2016_DECIE, TC_5_2016_DECIE)
8. Anghelescu Petre, *Cryptographic Techniques Based on Bio-Inspired Systems*, Handbook of Research on Advanced Hybrid Intelligent Techniques and Applications, IGI Global, ISBN : 9781466694743, doi:10.4018/978-1-4666-9474-3.ch003, pp. 59-77, 2016, 2016, (TC_8_2016_DECIE, TC_7_2016_DECIE)
9. Luminița Știrbu, Cosmin Știrbu, Nadia Belu, Viorel Nicolae, *Key characteristics of the World Class Manufacturing concept in the production of chassis for buses industry*, CONAT 2016 International Congress of Automotive and Transport Engineering edited by Anghel Chiru, Nicolae Ispas Springer: ISBN: 978-3-319-45446-7 (Book) ISBN: 978-3-319-45447-4 (eBook) CONAT2016 (International CONGRESS of Automotive and Transport Engineering The 2016 International SIAR Congress, Brașov, Romania, 26 – 29 October 2016), pp. 585-591, (ISI WEB), 2016, WOS:000390821400064, 2016, (TC_9_2016_DECIE)
10. Jose Manuel Lopez-Guede, Jose Antonio Ramos-Hernanz, Manuel Grana, Valeriu Manuel Ionescu, *ANN based model of PV modules*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook), pg. 147-155, 2016, (TC_9_2016_DECIE)

I.2. Cărți și capitole în cărți de specialitate naționale ca autor (cu ISBN intern)

1. Teodorescu Rodica-Mihaela, *Bazele utilizării procesoarelor de texte. Aplicația Writer din LibreOffice. Ubuntu*, Editura Universității din Pitești, ISBN 978-606-560-490-2, <http://biblioteca.upit.ro/>, 2016, (TC_6_2016_DECIE, TC_2_2016_DECIE)
2. Ioan Lita, Ion Bogdan Cioc, Daniel Alexandru Visan, *Componente si circuite pasive. Intrebari si raspunsuri*, ISBN: 978-606-25-0226-3, 143pg., Ed. Matrix Rom, Bucuresti, 2016, 2016, (TC_3_2016_DECIE)
3. Alexandru Ene, *Programarea calculatoarelor in limbajul C. Note de curs*, Editura Tip Naste Pitești, ISBN 978-973-1921-04-4, 2016, 2016, (TC_6_2016_DECIE)
4. Enescu Fl., *Informatica aplicata*, ISBN-978-606-560-491-9, Editura Universității Pitești, 2016, pag. 467, 2016, 2016, (TC_6_2016_DECIE)

5. Florin-Marian Birleanu, *Limbaje formale, automate si compilatoare. Teorie si aplicatii*, 210 pagini, ISBN 978-606-560-480-3, Editura Universitatii din Pitesti, 2016, (TC_6_2016_DECIE)

I.3. Îndrumare de laborator, culegere de probleme

1. Robert Cristian Beloiu, *Lucrari practice de Sisteme de Actionari Electrice*, Ed. Upit, 2016, ISBN 978-606-560-464-3, 110 pag. www.upit.ro, 2016

2. Robert Cristian Beloiu, *Lucrari practice de Robotica Industriala*, Ed. Upit, 2016, ISBN 978-606-560-483-4, 163 pag. www.upit.ro, 2016

II. Lucrări (articole) ISI / BDI publicate în anul 2016

II.1. Articole în reviste cotate ISI Thomson Reuters

1. Suwat Sikkabut, Pongsiri Mungporn, Chainarin Ekkaravarodome, Nicu Bizon, Pietro Tricoli, Babak Nahid-Mobarakeh, Serge Pierfederici, Bernard Davat, Phatiphat Thounthong., *Control of High-Energy High-Power Densities Storage Devices by Li-ion Battery and Supercapacitor for Fuel Cell/Photovoltaic Hybrid Power Plant for Autonomous System Applications*, IEEE Transactions on Industry Applications 52(5): 4395-4407, September/October 2016 Impact Factor: 1.901 DOI: 10.1109/TIA.2016.2581138, <http://ieeexplore.ieee.org/abstract/document/7492168/> WOS:000384659900078, 2016, (TC_1_2016_DECIE, TC_11_2016_DECIE)

2. N. Bizon, *Global Maximum Power Point Tracking based on new Extremum Seeking Control scheme*, Progress in Photovoltaics: Research and Applications 2016;24(5):600-22. <http://onlinelibrary.wiley.com/doi/10.1002/pip.2700/full> WOS:000373624100002, 2016, (TC_5_2016_DECIE, TC_11_2016_DECIE)

3. N. Bizon, *Global Extremum Seeking Control of the Power Generated by a Photovoltaic Array under Partially Shaded Conditions*, Energy Conversion and Management 109 71-85 (February 2016), <http://dx.doi.org/10.1016/j.enconman.2015.11.046> WOS:000369453600007, 2016, (TC_5_2016_DECIE, TC_2_2016_DECIE)

4. N. Bizon, *Global Maximum Power Point Tracking (GMPPT) of Photovoltaic array using the Extremum Seeking Control (ESC): A review and a new GMPPT ESC scheme*, Renewable & Sustainable Energy Reviews 57 (may 2016), 524–539, IF=5.901doi:10.1016/j.rser.2015.12.221 WOS:000370456000041, 2016, (TC_5_2016_DECIE, TC_4_2016_DECIE)

5. Anghelescu Petre, *FPGA implementation of programmable cellular automata encryption algorithm for network communications*, International Journal of Computer Systems Science and Engineering (CSSE), volume 31, number 5, ISSN: 0267-6192, september 2016. Impact factor: 0.291 (2015)., 2016, (TC_8_2016_DECIE, TC_7_2016_DECIE)

6. Shilei Sun, Silviu Ionita, Eva Volná, Andrey Gavrilov, Feng Liu, *Some highlights on fuzzy systems and data mining*, Articol editorial in Journal of Intelligent & Fuzzy Systems, vol. 31, no. 6, pp. 2757-2758, 2016, DOI:10.3233/JIFS-169156, (<http://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs169156>) ISSN 1064-1246. (Impact factor 2016: 1.004).Punctaj: (25+20x1.004)/5=9.016, 2016, (TC_7_2016_DECIE)

II.2. Articole în volume indexate ISI Proceedings

1. Adrian-Viorel Diaconu, Valeriu Ionescu, Gabriel Iana, Jose Manuel Lopez-Guede, *A new bit-level permutation image encryption algorithm*, Communications (COMM), 2016 International Conference, Pages: 411-416, Published: 9-10 June 2016, Bucharest, ISBN:978-1-4673-8197-0, DOI: 10.1109/ICComm.2016.7528310 Web of Science Categories: Engineering, Electrical & Electronic; Telecommunications WOS:000383221900085, 2016, (TC_9_2016_DECIE)
2. Dumitru Cazacu, Valeriu Ionescu, Silviu Ionita, Elena Virjoghe, *On The Multishell Cylindrical Magnetostatic Shields: Analytical And Numerical Approach*, ECAI 2016, 30 June-02 July 2016, Ploiesti, Romania, ISBN 978-1-5090-2047-8, MW-6, Indexare: ISI WoK, 2016, (TC_10_2016_DECIE)
3. Valeriu Manuel Ionescu, *Exploiting the ambient light sensor to track user environment information*, 15th RoEduNet Conference: Networking in Education and Research, Bucharest, Romania, September 7 – 9, 2016, ISSN 2068-1038, pg. 125-130, Indexare: ISI WoK, 2016, (TC_10_2016_DECIE)
4. V. Ionescu, D. Cazacu, *Analysis of Comsol Multiphysics Parallel Performance on a multi-core system*, The 8th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2016, 30 June – 2 July, Ploiesti Romania, 2016, (TC_12_2016_DECIE)
5. Valeriu Manuel Ionescu, *Using cross platform development libraries. Telerik Mobile*, 15th RoEduNet Conference: Networking in Education and Research, Bucharest, Romania, September 7 – 9, 2016, ISSN 2068-1038, pg. 88-93, Indexare: ISI WoK, 2016, (TC_10_2016_DECIE)
6. Iorgulescu, Mariana, *Study of single phase induction motor with aluminium versus copper stator winding*, 2016 International Conference on Applied and Theoretical Electricity (ICATE) Year: 2016, Pages: 1 - 5, DOI: 10.1109/ICATE.2016.7754643, IEEE Conference Publications, 2016, (TC_11_2016_DECIE)
7. D. Cazacu, V. Ionescu, S. Ionita, E. Virjoghe, *Theoretical and numerical aspects concerning Multishell magnetostatic shields*, The 8th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2016, MW-6 paper, 30 June – 2 July, Ploiesti Romania, 2016, (TC_12_2016_DECIE)
8. Nitul Dutta, Zdzislaw Polkowski, Corina Savulescu, *An Approach to Signaling Cost Reduction in Proxy MIPv6 for Mobility Management*, The fifth edition of International Conference on Advances in Computing, Communications and Informatics ICACCI-2016, Jaipur, India, 2016, (TC_8_2016_DECIE, TC_13_2016_DECIE)
9. Adrian Ioan Lita, Laurentiu Mihai Ionescu, Alin Gheorghita Mazare, Gheorghe Serban, Ioan Lita, *Real time system for instrumental sound extraction and recognition*, Electronics Technology (ISSE), 2016 39th International Spring Seminar on, pp. 456-461, Electronic ISSN: 2161-2064, 2016, 2016, (TC_7_2016_DECIE, TC_9_2016_DECIE)
10. L. M. Ionescu, A. Gh. Mazare, I. Lita, N. Belu, A-I. Lita, *Real time system for extraction and playback of an instrumental sound*, 2016 IEEE 22nd International Symposium for Design and Technology in Electronic Packaging (SIITME), Oradea, Romania, 2016, pp. 86-89. doi: 10.1109/SIITME.2016.7777250. (BDI: IEEE Xplore), 2016, (TC_9_2016_DECIE)
11. Ioan LITA, Daniel Alexandru VISAN, Ion Bogdan CIOC, Alin Gheorghita MAZARE, Rodica Mihaela TEODORESCU, *Indoor Environmental Parameters Monitoring for Building Automation Systems*, 8th International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2016, Series

Electronics, Computers and Artificial Intelligence, Vol. 8 - 2016, ISSN 1843-2115, ISBN: 978-1-5090-2046-1, Universitatea Petrol-Gaze din Ploiesti , Ploiesti, <http://ieeexplore.ieee.org/>, Romania, 30 June-02 July 2016, 2016, (TC_2_2016_DECIE)

12. Visan, Daniel Alexandru; Ionescu, Laurentiu Mihai; Lita, Adrian Ioan, Alin Mazare, *Remote Communication Interface for Sound and Vibration Sensors*, 2016 IEEE 22nd International Symposium for Design and Technology in Electronic Packaging (SIITME), Oradea, Romania, 2016, pp. 90-93. doi: 10.1109/SIITME.2016.7777250. (BDI: IEEE Xplore), 2016, (TC_9_2016_DECIE)

13. Daniel Alexandru Visan, Adrian Ioan Lita, Stefan Oprea, Ion Bogdan Cioc, *Reconfigurable signal generator and simulator for testing the digital transmission circuits*, 39 International Spring Seminar on Electronics Technology - ISSE 2016, "Printed electronics and smart textiles", Electronic ISSN: 2161-2064, Print ISBN: 978-80-261-0618-0, pp. 353-356, Digital Object Identifier:10.1109/ISSE.2016.7563219, WOS:000387089800069, <http://ieeexplore.ieee.org/>, University of West Bohemia, Department of Technologies and Measurement, Faculty of Electrical Engineering, Pilsen, Czech Republic, May 18-22, 2016, 2016, (TC_2_2016_DECIE)

14. Ion Bogdan Cioc, Stefan Oprea, Daniel Alexandru Visan, Ioan Lita, Adrian Ioan Lita, *Remote measurements in educational laboratories using LabVIEW and DAQ cards*, 39 International Spring Seminar on Electronics Technology - ISSE 2016, "Printed electronics and smart textiles", Electronic ISSN: 2161-2064, Print ISBN: 978-80-261-0618-0, pp. 486 - 489, Digital Object Identifier:10.1109/ISSE.2016.7563242, WOS:000387089800096, <http://ieeexplore.ieee.org/>, University of West Bohemia, Department of Technologies and Measurement, Faculty of Electrical Engineering, Pilsen, Czech Republic, May 18-22, 2016, 2016, (TC_3_2016_DECIE, TC_4_2016_DECIE)

15. Ion Bogdan Cioc, Stefan Oprea, Daniel Alexandru Visan, Ioan Lita, Adrian Ioan Lita, *Simulation of signals in digital television using LabVIEW*, 39th International Spring Seminar on Electronics Technology (ISSE), Pilsen, CZECH REPUBLIC, MAY 18-22, 2016, Pages: 357 - 360, WOS:000387089800070, ISBN:978-1-5090-1389-0, ISSN: 2161-2536, DOI: 10.1109/ISSE.2016.7563220, Referenced in: IEEE Conference Publications, 2016, 2016, (TC_5_2016_DECIE)

16. Daniel Alexandru Visan, Ion Bogdan Cioc, Stefan Oprea, Adrian Ioan Lita, *GSM based remote control for distributed systems*, 39th International Spring Seminar on Electronics Technology (ISSE), Pilsen, CZECH REPUBLIC, MAY 18-22, 2016, Pages: 468 - 471, WOS:000387089800092, ISBN:978-1-5090-1389-0, ISSN: 2161-2536, DOI: 10.1109/ISSE.2016.7563242, Referenced in: IEEE Conference Publications, 2016, IEEE Xplore Digital Library, 2016, (TC_3_2016_DECIE)

17. Nitul Dutta, Zdzislaw Polkowski, Corina Savulescu, *Grid based Routing in Cognitive Radio Networks for Concurrent Communication*, 2016 Ninth International Conference on Contemporary Computing (IC3) 11-13 August, 2016, Noida, India , 2016, (TC_8_2016_DECIE, TC_5_2016_DECIE)

18. Nadia Belu, Agnieszka Misztal, Laurentiu Mihai Ionescu, *Quality Assurance Matrix as the advanced generation of quality control*, International Conference on Economics and Management Innovations (ICEMI 2016), 2016, 2016, (TC_6_2016_DECIE)

19. V. Nicolae, L. M. Ionescu , N. Belu, L. E. Ştirbu, *Improvement of the 8D Analysis Through a System Based on the "Internet of Things" Concept Applied in Automotive Industry*, CONAT 2016 International Congress of Automotive and Transport Engineering, pp 635-642, 2016,

doi:10.1007/978-3-319-45447-4_70, Editor Springer International Publishing. (BDI: Springerlink), 2016, (TC_6_2016_DECIE, TC_9_2016_DECIE)

20. Birleanu, Florin-Marian; Enache, Bogdan-Adrian; Alexandru, Magdalena, *First Steps Towards Designing a Compact Language for the Description of Logic Circuits*, 11th International Conference on Communications (COMM) Location: Bucharest, ROMANIA Date: JUN 09-11, 2016, 2016, (TC_6_2016_DECIE)

II.3. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale

1. Iana Vasile Gabriel, Ionita Silviu, Ionescu Valeriu, *System for interpreting the characteristics of metal objects based on signal acquired from a magnetic loop antenna*, The 8th International Conference on Electronics, Computers and artificial Intelligence, Published: 2016, Ploiesti ROMANIA, ISSN-1843-2115 Google Scholar/Academic, 2016, (TC_9_2016_DECIE)

2. Alexandru-Catalin Petrini, Valeriu-Manuel Ionescu, *Implementation of the Huffman Coding Algorithm in Windows 10 IoT Core*, ECAI 2016, 30 June-02 July 2016, Ploiesti, Romania, ISBN 978-1-5090-2047-8, pg. 1-6 (SW-9) , Indexare: ISI WoK, 2016, (TC_10_2016_DECIE)

3. VALERIU MANUEL IONESCU, Constantin Florian Stănescu, *Raspberry Pi 2 security system using Windows 10 IoT*, Journal of Electrical Engineering, Electronics, Control and Computer Science, Journal of Electrical Engineering, Electronics, Control and Computer Science, Vol. 2, No. 2 (2016), ISSN 2457-7812, ISSN-L 2457-7812 – Google Scholar, 2016, (TC_10_2016_DECIE)

4. Dumitru Bivol, Valeriu Manuel Ionescu, *SYSTEM FOR RESTRICTING USER ACCESS TO ANDROID OPERATING SYSTEM*, Universtity of Pitesti Scientific Bulletin, Series: Electronics and computers science Vol. 1 / 2016, pISSN: 2344 – 2158 (old pISSN 1453-1119), eISSN: 2344 – 2166, pg 1-6, Index Copernicus, 2016, (TC_10_2016_DECIE)

5. Valeriu Manuel Ionescu, Stanica Cristian, *INVESTIGATING THE PERFORMANCE OF A SECURE RASPBERRY PI SNMPV3 AGENT*, pg 7-14, University of Pitesti Scientific Bulletin, Series: Electronics and computers science Vol. 2 / 2016, pg. 1-6, pISSN: 2344 – 2158 (old pISSN 1453-1119), eISSN: 2344 – 2166, Index Copernicus, 2016, (TC_10_2016_DECIE)

6. Valeriu Manuel Ionescu, *COMPARING PARALLEL OPERATION PERFORMANCE FOR PIXEL PROCESSING IN MOBILE NVIDIA GPU AND INTEL CPU IN WINDOWS 10*, , pg. 12-17, University of Pitesti Scientific Bulletin, Series: Electronics and computers science Vol. 2 / 2016, pISSN: 2344 – 2158 (old pISSN 1453-1119), eISSN: 2344 – 2166, Index Copernicus, 2016, (TC_10_2016_DECIE)

7. Marin Radut, Nicu Bizon., *Determining the power generated by the Photovoltaic Window blinds tilted at different angles for vertical and horizontal orientation*, ECAI 2016 - International Conference – 8th Edition Electronics, Computers and Artificial Intelligence, 30 June -02 July, 2016, Ploiesti, ROMÂNIA[IEEEExplore] [Scopus], 2016, (TC_5_2016_DECIE, TC_11_2016_DECIE)

8. Bogdan-Adrian Enache, Florin-Marian Birleanu, Marin Radut, *Modeling a PV panel using the manufacturer data and a hybrid adaptive method*, Proceedings of "The 8th INTERNATIONAL CONFERENCE on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE (ECAI 2016)", June 30 - July 2, Ploiesti, Romania, vol. 8, no. 2 (BDI: IEEE Xplore), 2016, (TC_2_2016_DECIE)

9. Badre Bossoufi, Hala Alami Aroussi, Silviu Ionita, Luminita-Mirela Constantinescu, *Speed Control for PMSM Drive System Using Predictive Control*, 8 th INTERNATIONAL CONFERENCE on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE ECAI 2016, June 30– July 02, 2016, ECAI-2016 VOLUMES, Vol. 8 – 2016 ISSN – 1843 – 2115, Compliant PDF Files, CFP1627U-ART, ISBN 978-1-5090-2047-8, DVD, CFP1627U-DVD, ISBN 978-1-5090-2044-7, Print, CFP1627U-PRT, ISBN 978-1-5090-2046-1, IEEE Xplore (SCOPUS), 2016, (TC_11_2016_DECIE)
10. Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, *Evaluation of the performance of new Extremum Seeking Control algorithm to locate accurately the peaks on multimodal functions*, ECAI 2016 - International Conference – 8th Edition Electronics, Computers and Artificial Intelligence, 30 June -02 July, 2016, Ploiesti, ROMÂNIA [IEEEXplore] [Scopus], 2016, (TC_2_2016_DECIE, TC_5_2016_DECIE)
11. Mariana Iorgulescu, *Energy Efficiency Management for Metalworking Manufactured*, Journal of Electrical Engineering, Electronics, Control and Computer Science, vol 2, nr.4 (2016), pp 15-20, 2016, (TC_11_2016_DECIE, TC_12_2016_DECIE)
12. P. Thounthong, S. Sikkabut, P. Mungporn, C. Ekkaravarodome, N Bizon, P. Tricoli, B. Nahid-Mobarakeh, S. Pierfederici, B. Davat, *Differential flatness based speed/torque control with state-observers of permanent magnet synchronous motor drives*, IEEE Industry Applications Society Annual Meeting, 2016 <http://ieeexplore.ieee.org/document/7731883/> DOI: 10.1109/IAS.2016.7731883, 2016, (TC_5_2016_DECIE, TC_12_2016_DECIE)
13. Badre Bossoufi, Silviu Ionita, Luminita Constantinescu, Madiha El Ghamrasni, *Backstepping Control of DFIG-Generators for Wind Turbines Variable-Speed*, International Symposium on Fundamentals of Electrical Engineering 2016 University POLITEHNICA of Bucharest, Romania June 30-July 2, 2016, IEEE Xplore , Cat. No.:CFP1693Y-ART, ISBN: 978-1-4673-9575-5, 2016, (TC_12_2016_DECIE)
14. Mustapha Jamma, Mohamed Barara, Mohammed Akherraz, Bogdan-Adrian Enache, *Voltage oriented control of three-phase PWM rectifier using space vector modulation and input output feedback linearization theory*, 8th Edition Electronics, Computers and Artificial Intelligence - ECAI 2016, At Ploiesti, Romania, Volume 1, no.1., 2016, (TC_12_2016_DECIE)
15. Nicolae Diga, Constantin Ghita, Bogdan-Adrian Enache, Silvia-Maria Diga, *Considerations on the Command and Analysis of the Low Speed Permanent Magnet Synchronous Machines Operating*, The International Conference on Applied and Theoretical Electricity - ICATE 2016, At Craiova, Romania, 2016, (TC_12_2016_DECIE)
16. Stoica C, D. Cazacu, I. Daniel, *Numerical And Experimental Aspects Concerning The Static and Dynamic Regime Of A Linear Actuator* Journal of Electrical Engineering, Electronics, Control and Computer Science JEECCS , *Numerical And Experimental Aspects Concerning The Static and Dynamic Reg.* , 2016, (TC_12_2016_DECIE)
17. Andrei I. Bogdan, Nicu Bizon, *Performance evaluation of five PWM modulation strategies applied to spread the power spectrum of the power converters*, ECAI 2016 - International Conference – 8th Edition Electronics, Computers and Artificial Intelligence, 30 June -02 July, 2016, Ploiesti, ROMÂNIA [IEEEXplore] [Scopus], 2016, (TC_2_2013_DECIE, TC_5_2013_DECIE)
18. Rodica Mihaela TEODORESCU, *Synthesis-based design of RC one-ports, Foster and Cauer Syntheses*, JEECCS – Journal of Electrical Engineering, Electronics, Control and Computer Science, Volume 2, Issue 3, Number 1, pages 47-52, ISSN-L 2457-7812, <http://jeeccs.net/index.php/journal/article/view/30/19> , 2016, (TC_2_2016_DECIE)

19. Daniel Alexandru VISAN, Mariana JURIAN, Ion Bogdan CIOC, Laurentiu Mihai Ionescu, Adrian Ioan LITA, *Delta Encoder for Fiber Optic Based Data Transmission of Signals from Sensors*, 8th International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2016, Series Electronics, Computers and Artificial Intelligence, Vol. 8 - 2016, ISSN 1843-2115, ISBN: 978-1-5090-2046-1, Universitatea Petrol-Gaze din Ploiesti , Ploiesti, <http://ieeexplore.ieee.org/>, Romania, 30 June-02 July 2016, 2016, (TC_3_2016_DECIE, TC_4_2016_DECIE)
20. Bostan Ionel, *Comparative Study Between BJT and MOSFET Implementation of Current-Source Loads Voltage Amplifiers*, Journal of Electrical Engineering Electronics, Control and Computer Science, vol. 2, No4, pp 21-24 , 2016 <http://jeeccs.net/index.php/journal/article/view/60>, 2016, (TC_2_2016_DECIE)
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III. Lucrări (articole) publicate în anul 2016 în reviste și volume de conferințe cu referenți (neindexate)

III.1. Articole în reviste

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IV. Granturi / proiecte de cercetare în anul 2016

IV.1. Granturi / proiecte câștigate prin competiție internațională

1. *STUDY OF VARIATION OF THE MECHANICAL PROPERTIES OF SUPERALLOYS INCONEL 718 AND RENE 41 UNDER THERMAL SHOCK : (TERMOINCORENE -2016)*, Daniel-Constantin ANGHEL, Marioara ABRUDEANU, Vasile RIZEA, Gabriela PLĂIAȘU, Luminița CONSTANTINESCU, Programul transnational FP7 SFERANET/CNRS Comisia europeana, SFERA II (SOLAR FACILITIES FOR

THE EUROPEAN RESEARCH AREA), Denumire proiect: Study of variation of the mechanical properties of superalloys INCONEL 718 and RENE 41 under thermal shock, Franta, Laboratorul PROMES-CNSR-Odeillo, 2016-2017, http://sfera2.sollab.eu/access/access_selected, 2016, 0.00, (TC_11_2016_DECIE)

2. *Cost-Efficient Data Collection for Smart Grid and Revenue Assurance*, , Cost-Efficient Data Collection for Smart Grid and Revenue Assurance (Optimizarea costurilor la colectarea datelor de la contoarele inteligente si metode de imbunatatire a profitului la transportul energiei electrice) CERA-SG, Project Outline Application ID: 77594, Project plan – ERA-Net Smart Grids Plus, Total 2016 = 39.627,00 Euro (178.321,50 Lei), 2016, 0.00, (TC_6_2016_DECIE)

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UNIVERSITATEA din Pitești

Facultatea de Electronica, Comunicatii si Calculatoare

Departamentul de Electronica, Calculatoare si Inginerie Electrica

Sinteza rezultatelor activităților de cercetare în anul 2016 la nivel de departament

Categoria / subcategoria activității de cercetare științifică	2016	Total
I. Cărți și capitole în cărți		
I.1 de specialitate, internaționale (autor)	10	10
I.2 de specialitate, naționale (autor)	5	5
I.3 Îndrumare de laborator, culegere de pb.	2	2
II. Lucrări (articole) ISI / BDI		
II.1 în reviste cotate ISI	6	6
II.2 în volume indexate ISI Proceedings	20	20
II.3 în reviste /volumele unor manifestări științifice indexate BDI	57	57
IV. Lucrări (articole) neindexate		
IV.1 în reviste	4	4
IV.2 în volumele manifestărilor științifice	3	3
IV. Granturi / proiecte de cercetare		
IV.1 câștigate prin competiție internațională	2	2
IV.2 câștigate prin competiție națională	3	3

Data: 30.03.2017