

UNIVERSITATEA din Pitești

Facultatea de Electronica, Comunicatii si Calculatoare

Departamentul de Electronica, Calculatoare si Inginerie Electrica

Rezultatele activităților de cercetare la nivel de departament in anul 2013

I. Cărți și capitole în cărți publicate în anul 2013

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

1. Nicu Bizon, *Hybrid Power Sources Topology With Spread Power Spectrum*, Nicu Bizon, Chapter 14. Hybrid Power Sources Topology With Spread Power Spectrum, pp. 369-406 In N. Bizon and N. M. Tabatabaei (Ed.), *Advances in Energy Research: Energy and Power Engineering*, Nova Science Publishers Inc., USA, 2013 978-1-62257-534-3 (hardcover), 978-1-62257-546-6 (ebook). 698 pp https://www.novapublishers.com/catalog/product_info.php?products_id=36315&osCsid=cce0dd5ced12df6ba9340d8c9d71142b, 2013, (TC_5_2013_DECIE, TC_11_2013_DECIE)

2. Nicu Bizon, Mihai Oproescu, Marian Raducu, *Chapter 7. Applications in Control of the Hybrid Power Systems*, pp. 227-290, In N. Bizon, N. M. Tabatabaei and Hossein Shayeghi (Ed.), 2013, *Analysis, Control and Optimal Operations in Hybrid Power Systems, Advanced Techniques and Applications for Linear and Nonlinear Systems*, Springer Verlag London Limited, London, UK, 978-1-4471-5538-6, 978-1-4471-5537-9 ; 394 pages, 2013, (TC_12_2013_DECIE, TC_1_2013_DECIE)

3. Nicu Bizon, *Hybrid Power Sources Topology With Active Mitigation Of Inverter Current Ripple*, Nicu Bizon, Chapter 13. Hybrid Power Sources Topology With Active Mitigation Of Inverter Current Ripple, pp. 335-368 In N. Bizon and N. M. Tabatabaei (Ed.), *Advances in Energy Research: Energy and Power Engineering*, Nova Science Publishers Inc., USA, 2013 978-1-62257-534-3 (hardcover), 978-1-62257-546-6 (ebook). 698 pp https://www.novapublishers.com/catalog/product_info.php?products_id=36315&osCsid=cce0dd5ced12df6ba9340d8c9d71142b, 2013, (TC_1_2013_DECIE, TC_5_2013_DECIE)

4. Nicu Bizon, Marian Raducu, Mihai Oproescu, *PWMCycloconverter - An Energy Efficient Topology For Fuel Cell Inverter Systems*, Nicu Bizon, Marian Raducu, Mihai Oproescu, Chapter 11. PWM Cycloconverter - An Energy Efficient Topology For Fuel Cell Inverter Systems, pp. 283-306 In N. Bizon and N. M. Tabatabaei (Ed.), *Advances in Energy Research: Energy and Power Engineering*, Nova Science Publishers Inc., USA, 2013 978-1-62257-534-3 (hardcover), 978-1-62257-546-6 (ebook). 698 pp https://www.novapublishers.com/catalog/product_info.php?products_id=36315&osCsid=cce0dd5ced12df6ba9340d8c9d71142b, 2013, (TC_1_2013_DECIE, TC_5_2013_DECIE)

5. Florin-Marian BIRLEANU, *Recurrence-Based Signal Processing: Applications in Ultrasonic Measurements*, 168 pages, ISBN: 978-3659337031, LAP LAMBERT Academic Publishing AG & Co. KG, Germany, 2013, (TC_5_2013_DECIE)

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

1. N. Bizon, L. Dascalescu, N. M. Tabatabaei, *Autonomous Hybrid Vehicles: Intelligent Transport Systems and Automotive Technologies*, N. Bizon, L. Dascalescu, N. M. Tabatabaei (Ed.), 2013, Autonomous Hybrid Vehicles: Intelligent Transport Systems and Automotive Technologies, Publishing house of the University of Pitești, Pitești, ISBN 978-606-560-327-1 ; 365 pages, 2013, (TC_5_2013_DECIE, TC_11_2013_DECIE)
2. Nicu Bizon, Marian Raducu, Mihai Oproescu, L.M. Constantinescu, *Autonomous Hybrid Vehicles:Cap.11, Energy Efficiency of the Multiport Power Converters used in the Hybrid Power Source of the Plug-in Fuel Cell Vehicles*, Universitatea din Pitești, 2013, ISBN 978-606-560-327-1, pg.211-240, pp. 30, 2013, (TC_11_2013_DECIE)
3. Robert Beloiu, Mariana Iorgulescu ,Corina Savulescu., *Autonomous Vehicles: Intelligent Transport Systems and Smart Technologies,Chapter 13. Dynamic Response of Electric Machines for Electric Vehicles/Hybrid Electric Vehicles (EV/HEV)*, Editors: Nicu Bizon, Lucian Dascalescu and Naser Mahdavi Tabatabaei (Faculty of Electronics, Communication and Computers, University of Pitesti, Romania) Chapter 13. Dynamic Response of Electric Machines for Electric Vehicles/Hybrid Electric Vehicles (EV/HEV) (University of Pitesti, Romania), 26 pp.Publishing house of the University of Pitești, Pitești, ISBN 978-606-560-327-1,2013, 2013, (TC_12_2013_DECIE)
4. Robert Beloiu, Mariana Iorgulescu, Savulescu Corina, *Autonomous Hybrid Vehicles. Intelligent Transport Systems and Automotive Technologie*, Editors: Nicu Bizon, Lucian Dascalescu and Naser Mahdavi Tabatabaei (Faculty of Electronics, Communication and Computers, University of Pitesti, Romania)Chapter 13. Dynamic Response of Electric Machines for Electric Vehicles/Hybrid Electric Vehicles (EV/HEV)(Robert Beloiu, Mariana Iorgulescu and Corina Savulescu, University of Pitesti, Romania); Ed. Upit, 2013. 978-606-560-327-1, Ed. Upit 2013/15, 2013, (TC_12_2013_DECIE, TC_7_2013_DECIE)
5. M.H. Moșit, E. Diaconescu, I. Făgărasanu, R. M. Catana, *Automatizari si Instrumentatie*, MatrixRom, ISBN 978-606-25-0025-2, 2013, 131 pag, 2013, (TC_12_2013_DECIE)
6. Dumitru Cazacu, *Metode numerice in ingineria electrica*, Ed.Sitech Craiova (Acreditata CNCSIS), 133 p.ISBN 978 - 606- 11- 3457-1, 2013, (TC_12_2013_DECIE)
7. Teodorescu Rodica-Mihaela, *Analiza și sinteza circuitelor cu medii de programare inginerești*, Editura Universității din Pitești, ISBN 978-606-560-339-4, <http://biblioteca.upit.ro/>, 2013, (TC_2_2013_DECIE)
8. Alexandru Ene, *100 de probleme rezolvate in limbajul C++*, Editura Universității din Pitești, ISBN 978-606-560-320-2, 2013, 2013, (TC_6_2013_DECIE)
9. Enescu Fl., *Aplicații introductive in limbajul C*, Editura Matrix Rom, ISBN 978-606-25-0037-5, București, 2013 / Pg.181, 2013, 2013, (TC_6_2013_DECIE)

B6. Îndrumare de laborator, culegere de probleme

1. Dumitru Cazacu, *Indrumar de laborator la Metode numerice in ingineria electrica*, Ed.Sitech Craiova (Acreditata CNCSIS) 115 p, ISBN 978-606-11-3456-4, 2013

2. Dumitru Cazacu, *Indrumar laborator Compatibilitate electromagnetica*, CD ISBN 978-606-560-358-5 109 p. Ed .Universitatii Pitesti, 2013

II. Lucrări (articole) ISI / BDI publicate în anul 2013

I.1. Articole în reviste cotate ISI Thomson Reuters

1. N. Bizon, *Energy efficiency for the multiport power converters architectures of series and parallel hybrid power source type used in plug-in/V2G fuel cell vehicles*, *Applied Energy* 102 (12 February 2013), 726-734. <http://dx.doi.org/10.1016/j.apenergy.2012.08.021> WOS:000314190800078, 2013, (TC_5_2013_DECIE, TC_11_2013_DECIE)

2. N. Bizon, *Energy harvesting from the PV Hybrid Power Source*, *Energy* 52 (1 April 2013): 297–307. Impact Factor: 4.159 <http://dx.doi.org/10.1016/j.energy.2013.02.006> WOS:000317941000031, 2013, (TC_1_2013_DECIE, TC_5_2013_DECIE)

3. N. Bizon, *Energy harvesting from the FC stack that operates using the MPP tracking based on modified extremum seeking control*, *Applied Energy* 104 (1 April 2013) 326-336. <http://dx.doi.org/10.1016/j.apenergy.2012.11.011> WOS:000316152700033, 2013, (TC_5_2013_DECIE, TC_2_2013_DECIE)

4. N. Bizon, *FC energy harvesting using the MPP tracking based on advanced extremum seeking control*, *International Journal of Hydrogen Energy* 38(4) (12 February 2013), 1952-1966. <http://dx.doi.org/10.1016/j.ijhydene.2012.10.112> WOS:000314860600023, 2013, (TC_5_2013_DECIE, TC_2_2013_DECIE)

5. Petre Anghelescu, Silviu Ionita, Vasile-Gabriel Iana, *High-Speed PCA Encryption Algorithm using reconfigurable computing*, *Journal Cybernetics and Systems (Taylor & Francis)*, Volume: 44 Issue: 4 Pages: 285-304, ID: 783375, ISSN: 0196-9722, eISSN: 1087-6553 DOI: 10.1080/01969722.2013.783375 Web of Science Categories: Computer Science, Cybernetics WOS:000320016100001, 2013, (TC_9_2013_DECIE)

II.2. Articole în volume indexate ISI Proceedings

1. Valeriu Manuel Ionescu, Florin Smaranda, Adrian-Viorel Diaconu, *Control System For Video Advertising Based On Raspberry Pi*, *Proceedings 12th RoEduNet Conference: Networking in Education and Research*, 26-28 september 2013, Constanta, IEEEExplore DOI :10.1109/RoEduNet.2013.6714204, 2013, (TC_10_2013_DECIE)

2. Valeriu IONESCU, Florin SMARANDA, Ion SIMA, Adrian-Viorel DIACONU, *Current status of the wireless local area networks in Romania*, *Proceedings of the RoEduNet International Conference 11th Edition*, January 17-19, 2013, Sinaia, pg 166-169, ISSN-L 2068-1038, DOI : 10.1109/RoEduNet.2013.6511752, 2013, (TC_10_2013_DECIE)

3. Iorgulescu, Mariana, *Iorgulescu, Mariana, Study of Three-Phase Bridge Rectifier Diagnosis based on Output Voltage and Current Analysis*, *Book Group Author(s): IEEE Conference: 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Location: Bucharest,, Book Group Author(s): IEEE Conference: 8th International Symposium on Advanced Topics in Electrical Engineering*

(ATEE) Location: Bucharest, ROMANIA Date: MAY 23-25, 2013 2013 8TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Published: 2013, 2013, (TC_11_2013_DECIE)

4. Mariana Iorgulescu, Savulescu Corina, *Aspects of learning techniques in power system*, Book Group Author(s): IEEEConference: International Conference on Electronics, Computers and Artificial Intelligence(ECAI) Location: Univ Pitesti, Pitesti, ROMANIA Date: JUN 27-29, 2013Sponsor(s): IEEE Region 8; IEEE Ind Applicat Soc; IEEE Romania Sect; Univ Pitesti, Fac Elect Comunicatii Calculatoare2013 INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI) Published: 2013, 2013, (TC_5_2013_DECIE, TC_2_2013_DECIE)

5. Nicu Bizon, Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, *On the search speed for the extremum seeking control 2D-schemes. Part I – signal processing using orthogonal dither signals*, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'13, No. 1, pp. 81-88, Pitești, ISSN 1843-2115 (<http://www.ecai.upit.ro>). 10.1109/ECAI.2013.6636153, <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6621246>, 2013, (TC_1_2013_DECIE, TC_11_2013_DECIE)

6. Robert Cristian Beloiu, *A practical approach for an introductory control engineering course*, Conference: International Conference on Electronics, Computers and Artificial Intelligence(ECAI) Location: Univ Pitesti, Pitesti, ROMANIA Date: JUN 27-29,2013Sponsor(s): IEEE Region 8; IEEE Ind Applicat Soc; IEEE Romania Sect; Univ Pitesti, Fac Elect Commuhttp://apps.webofknowledge.com.ux4l18xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=2&cacheurlFromRightClick=no, 2013, (TC_11_2013_DECIE, TC_12_2013_DECIE)

7. E. Diaconu, H. Andrei, G. Predusca, P. C. Andrei, P.Pencioiu, V. Ursu, M. Hanek, Luminita Mirela Constantinescu, *Modeling the charging characteristics of storage batteries for PV power systems*, IEEEExplore, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'13, Vol.5, No.1/2013, pp.15-20, Pitești,ISSN-1843-2115, DOI: 10.1109/ECAI.2013.6636194, 2013, (TC_11_2013_DECIE)

8. Enache, Bogdan; Lefter, Emilian; Stoica, Constantin, *Comparative Study for Generic Battery Models used for Electric Vehicles*, 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Location: Bucharest, ROMANIA Date: MAY 23-25, 2013, 2013, (TC_11_2013_DECIE)

9. Dumitru Cazacu, Enescu Florentina Magda, *Numerical problems in 3D FEM simulation of harmonic magnetic fields*, International Conference (Electronics, Computers and Artificial Intelligence(ECAI) Location: Univ Pitesti, Pitesti, ROMANIA Date: JUN 27-29, 2013), IEEE Xplore 178-1-4673-4935-2, pp.43-46, 2015, 2015, 2013, (TC_9_2013_DECIE, TC_12_2013_DECIE)

10. Constantin Stoica, Luminita Mirela Constantinescu, Emilian Lefter, Bogdan Enache, *Computation of the Characteristics of a Claw Pole Alternator through the Finite Element Method*, IEEEExplore, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'13, Vol.5, No.2/2013,pp. 39-42, Pitești, ISSN-1843-2115, DOI: 10.1109/ECAI.2013.6636196, 2013, (TC_12_2013_DECIE)

11. Eugen Diaconescu, Arva Mihai, Luige Vladareanu, *An agent infrastructure for the human driver assistant*, Applied Mechanics and Materials Vol. 436 (2013) pp 451-459, © (2013) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.436.451, 2013, (TC_12_2013_DECIE)
12. Constantin Stoica, Luminita Mirela Constantinescu, Emilian Lefter, Bogdan Enache,, *Computation of the Characteristics of a Claw Pole Alternator through the Finite Element Method (ECAI 2013)*, IEEEExplore, *Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI’13, Vol.5, No.2/2013,pp. 39-42, Pitești, , 2013*, (TC_12_2013_DECIE)
13. S. M. Digă, N. Digă and C. Stoica, *Particularities of construction and design of permanent magnets synchronous motors for driving electric bicycles 13th WSEAS International Conference on Electric Power Systems, High Voltages, Electric Machines (POWER’13, , 2013*, (TC_12_2013_DECIE)
14. S. M. Digă, C. Stoica, N. Digă and M. Brojboiu, *Considerations on 2D numerical modelling of permanent magnet synchronous motors for driving electric bicycles The Fourth International Symposium on Electrical and Electronics Engineering - ISEEE 2013, 11-13 October 2013, Galați, Rom, , 2013*, (TC_12_2013_DECIE)
15. N. Bizon, Marian Raducu, Mihai Oproescu, Luminita Mirela Constantinescu, *On the search speed for the extremum seeking control 2D-schemes. Part II -Performances estimation*, in Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'13, No. 1, pp. 89-96, Pitești, ISSN 1843–2115 <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6621246> WOS:000343672500003, 2013, (TC_5_2013_DECIE, TC_9_2013_DECIE)
16. Ioan Lita, Daniel Alexandru Visan, Ion Bogdan Cioc, Rodica Mihaela Teodorescu, Valeriu Manuel Ionescu, *Data acquisition system for collision tests in automotive industry*, 36th International Spring Seminar on Electronics Technology - ISSE 2013, "Automotive Electronics", ISSN: 2161-2528, WOS:000374113900075 ,Print ISBN: 978-606-613-064-6, pp. 393-396, Digital Object Identifier: 10.1109/ISSE.2013.6648279, <http://ieeexplore.ieee.org/>, "1 decembrie 1918" University of Alba Iulia, Alba Iulia, Romania, May 8-12, 2013, 2013, (TC_3_2013_DECIE, TC_4_2013_DECIE)
17. Ionescu, Laurentiu; Ionita, Silviu; Mazare, Alin, *Embedded System for 3-Axis Acceleration Measuring and Local Computing of Related Speeds and Positions*, 12th IFAC Conference on Programmable Devices and Embedded Systems (2013), Programmable Devices and Embedded Systems, VSB Technical University of Ostrava, Velké Karlovice, Czech Republic, Volume # 12 | Part# 1, 155-160 ISBN: 978-3-902823-53-3, ISSN: 1474-6670, 2013, 2013, (TC_2_2013_DECIE)
18. Barbu V. ,Ionescu L. ,Mazare A. ,Serban G., *Evolvable Hardware Used in Heliostatic Field Tracker System Control*, 2013 International Conference on Applied Electronics, Pilsen 10 – 12 September 2013, 29-33, ISSN 1803-7232 (Print) ISSN 1805-9597 (Online), ISBN 978-80-261-0166-6, 2013, (TC_9_2013_DECIE)
19. Anton, C. ,Ionescu, L. , Tutanescu, I. , Mazare, A. , Serban, G., *Error detection and correction using LDPC in parallel Hopfield networks*, 4th International Symposium on Electrical and Electronics Engineering (ISEEE), 2013, 11-13 Oct. 2013, INSPEC Accession Number:13936656 , 10.1109/ISEEE.2013.6674380, 2013, (TC_9_2013_DECIE)
20. Anton C., Ionescu L. Mazăre A., Tutănescu I., Serban G., *Errors correction with optimised Hopfield neural networks*, Telecommunications Forum (TELFOR), 2013 21st, 25-28 nov. 2013, ISBN 978-1-4799-1419-7 , pp. 393 – 396, 2013, 2013, (TC_9_2013_DECIE)

21. Ioan LITA, Daniel Alexandru VISAN, *Microcontroller Based Control System for Rotating Display with Multiplexed LED Array*, 5th International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2013, pp. 9 - 13, Series Electronics, Computers and Artificial Intelligence, Vol.5- Nr. 2/2013, ISSN 1843-2115, ISBN: 978-1-4673-4937-6, IEEE Catalog Number CFP1327U-ART, Pitesti, <http://ieeexplore.ieee.org/>, Romania, 27-29 Iulie 2013 rter> University of Alba Iulia, Alba Iulia, Romania, May 8-12, 2013, 2013, (TC_2_2013_DECIE)
22. Valeriu Ionescu, Ioan Lita, Daniel Alexandru Visan, Bogdan Cioc, *Architecture for Adders in Digital Filters Operating in Mixed Power Modes*, 36th International Spring Seminar on Electronics Technology - ISSE 2013, "Automotive Electronics", Alba Iulia, ROMANIA, MAY 08-12, 2013, WOS:000374113900076, ISBN:978-1-4799-0036-7, ISSN: 2161-2528; IEEE Xplore Digital Library ISSN: 2161-2528, Print ISBN: 978-606-613-064-6, pp. 397 - 400, DOI: 10.1109/ISSE.2013.6648280, <http://ieeexplore.ieee.org/>, 2013, (TC_2_2013_DECIE)
23. Daniel Alexandru Visan, Ioan Lita, Ion Bogdan Cioc, *Wireless Control System for Angular Positioning Applications*, 2012 IEEE 19th International Symposium for Design and Technology of Electronic Packages - SIITME 2013, pp 103 - 106, WOS:000347562900016 , IEEE Catalog Number: CFP1307I-ART, ISBN: 978-1-4799-1555-2, Digital Object Identifier: 10.1109/SIITME.2013.6743653, <http://ieeexplore.ieee.org/>, University of Bucharest, Center for Technological Electronics and Interconnection Techniques and “Dunărea de Jos” University of Galați, Galați, Romania, 24 – 27, October 2013, 2013, (TC_3_2013_DECIE)
24. Ion Bogdan Cioc, Ioan Lita, Daniel Alexandru Visan, *Simulator for Signals from Semiconductor Radiation Sensors Used in Testing of Radiation Measurement Apparatus*, 2012 IEEE 19th International Symposium for Design and Technology of Electronic Packages - SIITME 2013, pp. 159 - 162, WOS:000347562900026 , IEEE Catalog Number: CFP1307I-ART, ISBN: 978-1-4799-1555-2, Digital Object Identifier: 10.1109/SIITME.2013.6743664, <http://ieeexplore.ieee.org/>, University of Bucharest, Center for Technological Electronics and Interconnection Techniques and “Dunărea de Jos” University of Galați, Galați, Romania, 24 – 27, October 2013, 2013, (TC_4_2013_DECIE)
25. Daniel Alexandru Visan, Ioan Lita, Ion Bogdan Cioc, Valeriu Manuel Ionescu, *Design of Digital Communication Module for Remote Measurement Systems*, 36th International Spring Seminar on Electronics Technology - ISSE 2013, "Automotive Electronics", Alba Iulia, ROMANIA, MAY 08-12, 2013, pages 401 - 404 , WOS:000374113900077, ISBN:978-1-4799-0036-7, ISSN: 2161-2528, IEEE Xplore Digital Library, DOI: 10.1109/ISSE.2013.6648281, <http://ieeexplore.ieee.org/> Print ISBN: 978-606-613-064-6, 2013, (TC_3_2013_DECIE)
26. Ion Bogdan Cioc, Cornel Talpalariu, Jeni Talpalariu, Corina Matei, Ioan Lita, Daniel Alexandru Visan, *Implementation of Charge Sensitive Amplifier/Discriminator for PIN Diode Radiation Detectors*, 36th International Spring Seminar on Electronics Technology -ISSE 2013, Pages: 388-392, Alba Iulia, ROMANIA, Date: MAY 08-12, WOS:000374113900074, DOI: 10.1109/ISSE.2013.6648278, ISBN:978-1-4799-0036-7, ISSN: 2161-2528, 2013, (TC_4_2013_DECIE)
27. N. Bizon, Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, *On the search speed for the extremum seeking control 2D-schemes. Part I - Signal processing using orthogonal dither signals*, in Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'13, No. 1, pp. 81-88, Pitești, ISSN 1843–2115 <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6621246> WOS:000343672500002, 2013, (TC_5_2013_DECIE, TC_9_2013_DECIE)

28. Alexandru SERBANESCU, Florin-Marian BIRLEANU, Angela DIGULESCU, *Overview of our recent results in signal analysis using recurrence plots*, in Proceedings of the International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE ECAI-2013, June 27 - June 29, vol. 5, no. 4/2013, pp. 7-12, ISSN - 1843-2115, 2013, (TC_5_2013_DECIE)
29. Alexandru Ene, Cosmin Știrbu, *Weights set selection method for feed forward neural networks*, ECAI 2013 (International Conference – 5th Edition Electronics, Computers and Artificial Intelligence, Pitești, ROMÂNIA, 27 June -29 June 2013), Volume 4: Software & AI, volumul 4, pp. 45-48, 2013 WOS:000343672500017, 2013, (TC_7_2013_DECIE, TC_6_2013_DECIE)
30. Vlad Barbu, Laurentiu Mihai Ionescu, Alin Gheorghita Mazare, Gheorghe Serban, *Evolvable hardware used in heliostat field tracker system control*, International Conference “Applied Electronics”, Pilsen 10-12 September 2013, pp. 29-33, ISSN 1803-7232, ISBN 978-80-261-0166-6, IEEE Catalog Number CFP0969A-PRT, University of West Bohemia, Pilsen, Czech Republic, 2013, Web of Knowledge, IEEE Xplore(<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6636472>) WOSUID: WOS:000343819700007, 2013, (TC_6_2013_DECIE)
31. Manea Constantin, Enescu Florentina Magda, *Proposal for Developing a Text Editing Checking Software Material Based on a Complex Contrastive Lexicographic Database*, International Conference (Electronics, Computers and Artificial Intelligence(ECAI) Location: Univ Pitesti, Pitesti, ROMANIA Date: JUN 27-29, 2013), IEEE Xplore 178-1-4673-4935-2, vol 5 nr. 2 ISSN -1843, pp.115-118, 2013, 2013, (TC_6_2013_DECIE)
32. Alexandru Ene, Daniel Anghel, *A neural network application in ergonomics*, ECAI 2013 (International Conference – 5th Edition Electronics, Computers and Artificial Intelligence, Pitești, ROMÂNIA, 27 June -29 June 2013), volumul 5, pp. 107-110, 2013, (TC_7_2013_DECIE)
33. Daniel Anghel, Alexandru Ene, Nadia Belu, *A Matlab neural network application for the study of working conditions*, ModTech2013(Modtech Conference, Sinaia 2013), 2013, 2013, (TC_7_2013_DECIE)
34. Savulescu Corina, *System of Components from a Production Line Using Neuronal Networks*, Book Group Author(s): IEEEConference: 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Location: Bucharest, ROMANIA Date: MAY 23-25, 2013 2013 8TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Published: 2013, 2013, (TC_7_2013_DECIE)
35. Petre Anghel, Ionut Serbanescu, Silviu Ionita, *Surveillance system using IP camera and face-detection algorithm*, The 5th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2013, Vol. 5, Number 4/2013, ISSN – 1843– 2115, pp. 47 – 52, Pitesti, 27 – 29 June, 2013. Indexare: IEEE XplorePunctaj: $(25+20*0.25)/3= 10$, 2013, (TC_8_2013_DECIE)

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

1. Valeriu Ionescu, Ioan Lita, Daniel Alexandru Visan, Bogdan Ion Cioc, *Architecture for Adders in Digital Filters Operating in Mixed Power Modes*, 36th International Spring Seminar on Electronics Technology - ISSE 2013, "Automotive Electronics", ISSN: 2161-2528, Print ISBN: 978-606-613-064-6, pp. 397 - 400, WOS:000374113900076 , Digital Object Identifier: 10.1109/ISSE.2013.6648280,

<http://ieeexplore.ieee.org/>, “1 decembrie 1918” University of Alba Iulia, Alba Iulia, Romania, May 8-12, 2013, 2013, (TC_2_2013_DECIE)

2. Daniel Alexandru Visan, Ioan Lita, Ion Bogdan Cioc, Valeriu Manuel Ionescu, *Design of Digital Communication Module for Remote Measurement Systems*, 36th International Spring Seminar on Electronics Technology - ISSE 2013, "Automotive Electronics", ISSN: 2161-2528, Print ISBN: 978-606-613-064-6, pp. 401 - 404, WOS:000374113900077 , Digital Object Identifier: 10.1109/ISSE.2013.6648281, <http://ieeexplore.ieee.org/>, “1 decembrie 1918” University of Alba Iulia, Alba Iulia, Romania, May 8-12, 2013, 2013, (TC_4_2013_DECIE, TC_3_2013_DECIE)

3. Adrian-Viorel DIACONU, Ion SIMA, Valeriu Manuel IONESCU, *A NEW HYBRID PSEUDORANDOM NUMBER GENERATOR*, University of Pitesti Scientific Bulletin, Series: Electronics and computers science Vol. 2 / 2013, PG. 17-22, Indexare Index Copernicus, 2013, (TC_10_2013_DECIE)

4. Alin Mazare, Laurentiu Ionescu, Dumitru Cazacu, *Intelligent control of greenhouse environment*, Advances in Automatic Control, Modelling & Simulation, 2013, pp. 391-394, ISBN: 978-1-61804-189-0, 2013, 2013, (TC_7_2013_DECIE, TC_9_2013_DECIE)

5. Lefter, Em., Constantinescu, L. M., Stoica, C., Cruceru, D., *Laboratory models – solutions for the study of the hybrid electrical systems of traction and supply, with applications in cars*, UNIVERSITY OF PITESTI SCIENTIFIC BULLETIN, Series: Electronics and Computers Science, ISSN 1453-1119, Vol. 2 / 2012, Frequency: 2 issues per year, Publisher: Editura Universitatii din Pitesti, Indexed by: 1. Index Copernicus Journal Master List, pg.25-32, 2013, (TC_12_2013_DECIE)

6. D.Cazacu, *Numerical Problems in 3D Magnetostatic FEM Analysis*, Procc.of the the 15th WSEAS International Conference on automatic control, modelling and simulation ACMOS'13, pp.385-390, Brasov,Romania, june 1-3, 2013. BDI :Google Scholar/ Academic , 2013, (TC_12_2013_DECIE)

7. Enescu Fl, Cazacu D, *A Study of comparative evaluation of methods for image processing using color features*, International Conference (Automatic Control, Modelling and Simulation ACMOS'13, Brasov,Romania, june 1-3, 2013, ISBN: 978-1-61804-189-0), pp.395-400, (BDI: Google Scholar), 2013, 2013, (TC_6_2013_DECIE)

8. Cristian Spirleanu, Eugen Diaconescu, *Multi-Agent Distributed Infrastructure for Intelligent Building Control*, ECAI 2014 - International Conference – 5th Edition Electronics, Computers and Artificial Intelligence 23 October -25 October, 2014, Bucharest, 2013, (TC_12_2013_DECIE)

9. Eugen Diaconescu, Luige Vladareanu, *Modelling of the Multi-Agent Systems through Specific DEDS Methods and the Erlang Functional Language*, Proceedings of the 4th European Conference for the Applied Mathematics and Informatics (AMATHI '13), Dubrovnik, Croatia, 25-27 iunie 2013, pag243-249, 2013, (TC_12_2013_DECIE)

10. N. Bizon, M. Oproescu, M. Raducu, L.M. Constantinescu, *The Extremum Seeking Control based on Band Pass Filter for the Dither Signal Processed in the Control Loop*, International Journal on “Technical and Physical Problems of Engineering” (IJTPE), IJTPE - Issue 16, Volume 5, Number 3, September 2013 (ISSN 0016-0503-0913), 133-143. 20-IJTPE-Issue16-Vol5-No3-Sep2013-pp133-141.pdf <http://www.ijtppe.com/IJTPE/IJTPE-2013/IJTPE-Issue16-Vol5-No3-Sep2013/20-IJTPE-Issue16-Vol5-No3-Sep2013-pp133-141.pdf> [Norwegian Social Science Data Services (NSD), www.nsd.no/english] <https://scholar.google.com/citations?user=gfWxEhEAAA&hl=en> [Google Scholar], 2013, (TC_4_2013_DECIE, TC_5_2013_DECIE)

11. Rodica-Mihaela Teodorescu, Florentina Magda Enescu, *Virtual instrument for time display in any country of the globe*, Scientific Bulletin of Electrical Engineering Faculty, „VALAHIA” UNIVERSITY OF TÂRGOVISTE, No.1, ISSN 1843-6188, CNCSIS B+, Index COPERNICUS, pages 29-34, <http://www.buletinfie.ro/en/numere2013-1/articol%206%20buletin%201%202013.pdf>, 2013, (TC_2_2013_DECIE)
12. N. Bizon, M. Oproescu, M. Raducu, L.M. Constantinescu, *On the Search Speed for the Extremum Seeking Control Scheme Based on Band Pass Filter. Part II; Performances estimation*, Proceedings of Int. conf. Technologies and Power Electronics (TPE13), Sept 2013, Istanbul, Turkey. (www.iotpe.com) ISSN 2303-9752 (CD-ROM: ISSN 2303-9760) http://scholar.google.ro/citations?hl=en&user=owM5oXoAAAAJ&pagesize=100&view_op=list_works&sortBy=pubdate [Google Scholar], 2013, (TC_4_2013_DECIE, TC_5_2013_DECIE)
13. N. Bizon, M. Oproescu, M. Raducu, L.M. Constantinescu, *On the Search Speed for the Extremum Seeking Control Scheme Based on Band Pass Filter. Part I – Signal Processing in the Control Loop*, Proceedings of Int. conf. Technologies and Power Electronics (TPE13), Sept 2013, Istanbul, Turkey. (www.iotpe.com) ISSN 2303-9752 (CD-ROM: ISSN 2303-9760) http://scholar.google.ro/citations?hl=en&user=owM5oXoAAAAJ&pagesize=100&view_op=list_works&sortBy=pubdate [Google Scholar], 2013, (TC_4_2015_DECIE, TC_5_2015_DECIE)
14. C. Anton, I. Tutănescu, L. Ionescu, G. Șerban, A. Mazăre, *Usage of Associative Memories based on Hopfield Networks in an Error Detection and Correction System*, ICIT 2013, Amman - Jordan, 8-10.05.2013, ICIT 2013 The 6th International Conference on Information Technology, 7 pages, May 8, 2013, 2013, (TC_7_2013_DECIE, TC_9_2013_DECIE)
15. Teodorescu Mihaela, Enescu FI, *Virtual instrument for time display in any contry of the globe*, Scientific Bulletin of Electrical Engineering Faculty, „VALAHIA” UNIVERSITY OF TÂRGOVISTE, No.1, ISSN 1843-6188, CNCSIS B+, Index COPERNICUS, pages 29-34, <http://www.buletinfie.ro/en/numere2013-1/articol%206%20buletin%201%202013.pdf>, 2013, (TC_6_2013_DECIE, TC_2_2013_DECIE)
16. Valeriu Manuel Ionescu, Ioan Lita, Daniel Visan, Bogdan Cioc, *Optimizing parallel prefix adders for use in digital filters*, University of Pitesti, Scientific Bulletin, Series: Electronics and Computers, Vol 2, ISSN: 1453-1119, pp. 37-41, 2013, https://scholar.google.ro/scholar?start=0&hl=ro&as_sdt=0,5&scilib=1, 2013, (TC_3_2013_DECIE)
17. Rodica-Mihaela TEODORESCU, Ioan LIȚĂ, Ion Bogdan CIOC, *Signal visualisation and measurement using virtual instrumentation*, Scientific Bulletin of Electrical Engineering Faculty, „VALAHIA” UNIVERSITY OF TÂRGOVISTE, No.1, ISSN 1843-6188, CNCSIS B+, Index COPERNICUS, pages 40-46, <http://www.buletinfie.ro/en/numere2013-1/articol%208%20buletin%201%202013.pdf>, 2013, (TC_4_2013_DECIE)
18. Ion Bogdan Cioc, Cornel Talpalariu, Jeni Talpalariu, Corina Matei, Ioan Lita, Daniel Alexandru Visan, *Implementation of Charge Sensitive Amplifier/Discriminator for PIN Diode Radiation Detectors*, 36th International Spring Seminar on Electronics Technology - ISSE 2013, "Automotive Electronics", ISSN: 2161-2528, Print ISBN: 978-606-613-064-6, pp. 388-392, WOS:000374113900074, Digital Object Identifier: 10.1109/ISSE.2013.6648278., <http://ieeexplore.ieee.org/>, “1 decembrie 1918” University of Alba Iulia, Alba Iulia, Romania, May 8-12, 2013., 2013, (TC_4_2013_DECIE)

19. Chita, M.A., *Some aspects concerning measurement system of the temperature using an Intel 8051FX microcontroller*, The 39nd Annual Congress of the American Romanian Academy of Arts and Sciences (ARA), Chisinau, Republica Moldova, July 18--July 22, 2013, Proceedings, Section Engineering, pp. 224-228., 2013, (TC_4_2013_DECIE)
20. Chita, M.A., *Some aspects concerning to the architecture of multisensorials measurement system*, The 37nd Annual Congress of the American Romanian Academy of Arts and Sciences (ARA), Chisinau, Republica Moldova, July 18-July 22, 2013, Proceedings, Section Engineering, pp. 214-218., 2013, (TC_4_2013_DECIE)
21. Nicu Bizon, Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, *On the Search Speed for the Extremum Seeking Control Scheme Based on Band Pass Filter. Part I – Signal Processing in the Control Loop*, Proceedings of Int. conf. Technologies and Power Electronics (TPE13), Sept 2013, Istanbul, Turkey, ISSN 2303-9752 (CD-ROM: ISSN 2303-9760).(www.iotpe.com), 2013, (TC_4_2013_DECIE, TC_5_2013_DECIE)
22. Nicu Bizon, Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, *On the Search Speed for the Extremum Seeking Control Scheme Based on Band Pass Filter. Part II – performances estimation.*, Proceedings of Int. conf. Technologies and Power Electronics (TPE13), Sept 2013, Istanbul, Turkey. (www.iotpe.com) ISSN 2303-9752 (CD-ROM: ISSN 2303-9760)., 2013, (TC_4_2013_DECIE, TC_5_2013_DECIE)
23. Chita, M.A., *Measurement system of the temperature with smart temperature sensor by type SMT 160-30*, Annals of DAAAM for 2013 & Proceedings of the 24th DAAAM Symposium, 22-27th November 2013, Vienna, Austria, 2013, Published by DAAAM International Vienna, Austria, ISBN 978-3-901509-70-4, ISSN 1726-9679, pp. 0485-0486., 2013, (TC_4_2013_DECIE)
24. Alexandru Ene, Cosmin Știrbu, *A C language application for obtaining an increased fault tolerance for MLP neural networks*, University of Pitesti Scientific Bulletin (Series: Electronics and Computers Science, Pitesti, 2013), Vol. 13, Issue 2, pg. 13-16, (BDI Copernicus), 2013, 2013, (TC_6_2013_DECIE, TC_7_2013_DECIE)
25. L Banica, C Stefan, D Rosca, F Enescu, *Moving from Learning Management Systems to the e-Learning Cloud*, Vol 04 (2013) 865-874, pp 865-874, (BDI: Google Scholar), 2013, 2013, (TC_6_2013_DECIE)
26. Anghelescu Petre, *Programmable Cellular Automata Encryption Algorithm Implemented in Reconfigurable Hardware*, The International Journal of Advances in Telecommunications, Electrotechnics, Signals and Systems, IJATES2, ISSN: 1805-5443, Volume 2, No. 2, pag. 73-78, 2013, 2013, (TC_8_2013_DECIE, TC_7_2013_DECIE)
27. Ionescu, Laurentiu; Ionita, Silviu; Mazare, Alin, *Embedded System for 3-Axis Acceleration Measuring and Local Computing of Related Speeds and Positions*, 12th IFAC Conference on Programmable Devices and Embedded Systems (2013), Programmable Devices and Embedded Systems, VSB Technical University of Ostrava, Velké Karlovice, Czech Republic, Volume # 12 | Part# 1, 155-160 ISBN: 978-3-902823-53-3, ISSN: 1474-6670, 2013, 2013, (TC_9_2013_DECIE)
28. Gabriel Vasile Iana, Georgeta Raluca Ionescu, *DSP system for rotary inverted pendulum control*, Scientific Bulletin, Series "Electronics and Computers Science", vol. 13, Issue 1/ 2013, Pages: 11-14, pISSN: 2344 – 2158, eISSN: 2344 – 2166, 2013, (TC_9_2013_DECIE)

III. Lucrări (articole) publicate în perioada 2013 - 2013 în reviste și volume de conferințe cu referenți (neindexate)

III.1. Articole în reviste

1. Eugen DIACONESCU, *Considerații asupra arhitecturii, evoluției și securității sistemelor SCADA*, , 2013, (TC_11_2013_DECIE, TC_12_2013_DECIE)
2. Eugen DIACONESCU, *Protocoalele sistemelor SCADA. DNP3, AUTOMATIZĂRI ȘI INSTRUMENTAȚIE*, ISSN 1582-2334, Nr. 5-6/2013, pag. 20-22, 2013, (TC_11_2013_DECIE, TC_12_2013_DECIE)

III.2. Articole în volumele manifestărilor științifice

1. Nicu Bizon, Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, *On the Search Speed for the Extremum Seeking Control Scheme Based on Band Pass Filter. Part I – Signal Processing in the Control Loop*, 2013, Proceedings of Int. conf. Technologies and Power Electronics (TPE13), Sept 2013, Istanbul, Turkey. (www.iotpe.com) ISSN 2303-9752 (CD-ROM: ISSN 2303-9760), 2013, (TC_1_2013_DECIE)
2. Nicu Bizon, Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, *On the Search Speed for the Extremum Seeking Control Scheme Based on Band Pass Filter. Part II – performances estimation*, 2013, Proceedings of Int. conf. Technologies and Power Electronics (TPE13), Sept 2013, Istanbul, Turkey. (www.iotpe.com) ISSN 2303-9752 (CD-ROM: ISSN 2303-9760), 2013, (TC_1_2013_DECIE)
3. Teodorescu Rodica-Mihaela, *Instrument virtual pentru afișarea orei în orice țară de pe glob, având ca reper țara utilizatorului*, Simpozionul Internațional „DISPONIBILITATI CREATIVE IN LUME” – Ediția a IV-a, ISBN 978-606-576-684-6, Editura PIM, <https://scholar.google.ro/citations?user=f8mcCn0AAAAJ&hl=ro> , 2013, (TC_2_2013_DECIE)
4. Cornel Ioana, Alexandru Serbanescu, Angela Digulescu, Florin-Marian Birleanu, Ion Candel, *Recent advances in non-stationary signal processing using recurrence plots*, presentation in Fifth International Symposium on Recurrence Plots, August 14-16, Chicago, USA, 2013, (TC_4_2013_DECIE)

IV. Granturi / proiecte de cercetare în perioada 2013 - 2013

IV.2. Granturi / proiecte câștigate prin competiție națională

1. Enache Bogdan-Adrian, *Lansator electromagnetic pentru stingerea incendiilor violente din foraj și lansării dronelor pentru investigații sau intervenții*, PN-II-PT-PCCA-2013-4-0915 Director: Sorin Dan Grigorescu, Universitatea Politehnica Bucuresti/, 2013, (TC_12_2013_DECIE)
2. Enache Bogdan-Adrian, *Sistem integrat de monitorizare și control pentru estimarea completă în timp real a stării funcționale a ansamblului rețelelor electrice*, PN-II-PT-PCCA-2013-4-0259 Director Ursianu Victor, Nova Industrial, 2013, (TC_12_2013_DECIE)

3. G. Iana, *Utilizarea metodei rezonantei quadripolare nucleare la producerea de echipamente pentru detectia explozivilor si drogurilor – desmteh*, PROGRAMUL OPERATIONAL SECTORIAL CRESTEREA COMPETITIVITATII ECONOMICE – AXA PRIORITARA 2: COMPETITIVITATE PRIN CDI, Operatiunea 2.3.3 – Promovarea inovarii in cadrul intreprinderilor”, Val. 3,7 mil. lei, perioada de derulare 2013-2015, 2013, (TC_9_2013_DECIE)

UNIVERSITATEA din Pitești

Facultatea de Electronica, Comunicatii si Calculatoare

Departamentul de Electronica, Calculatoare si Inginerie Electrica

Sinteza rezultatelor activităților de cercetare în anul 2013 la nivel de departament

Categoria / subcategoria activității de cercetare științifică	2013	Total
I. Cărți și capitole în cărți		
I.1 de specialitate, internaționale (autor)	5	5
I.2 de specialitate, naționale (autor)	9	9
I.3 Îndrumare de laborator, culegere de pb.	2	2
II. Lucrări (articole) ISI / BDI		
II.1 în reviste cotate ISI	5	5
II.2 în volume indexate ISI Proceedings	35	35
II.3 în reviste /volumele unor manifestări științifice indexate BDI	28	28
III. Lucrări (articole) neindexate		
III.1 în reviste	2	2
III.2 în volumele manifestărilor științifice	4	4
IV. Granturi / proiecte de cercetare		
IV.2 câștigate prin competiție națională	3	3

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