

**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 2015**

### **I. Cărți și capitole în cărți publicate în anul 2015**

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

1. Robert Cristian Beloiu, *Cap. 7: Teaching Control Systems in Electrical Engineering Education Programs*, Editors: Roberta V. Nata, Progress in Education. Volume 37, Nova Science Publishers Inc., USA, 2015, ISBN: 978-1-63483-337-0, pp 113-150

[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=55550](https://www.novapublishers.com/catalog/product_info.php?products_id=55550) (TC\_11\_2015\_DECIE, TC\_12\_2015\_DECIE)

2. Bogdan Enache, Emilian Lefter and Costin Cepișcă, *Chapter 15. Batteries for Electrical Vehicles: A Review*, Carte: Autonomous Vehicles: Intelligent Transport Systems and Smart Technologies , Editura Nova Science Publishers Inc., USA, ISBN 978-1-63321-324-1, 2015, (TC\_11\_2015\_DECIE)

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

1. V. M. Ionescu, G.A. Iordachescu, *Comunicatii, virtualizare si procesare multimedia*, Editura Universitatii din Pitesti, e-ISBN 978-606-560-467-4, nr. de pagini 150, 2015, (TC\_6\_2015\_DECIE)

2. Valeriu Manuel Ionescu, *Rețele de calculatoare. Aplicații*, Ed. Universitatii din Pitesti, 2015, e-ISBN: 978-606-560-426-1 , 90 pg., 2015, (TC\_10\_2015\_DECIE)

3. Voicu, N., Constantinescu, L. M., Ghencea, D.P., *Chestiuni speciale de electrotehnică*, ISBN: 978-606-25-0163-1, Editura Matrix Rom, 171 pag.

<http://www.matrixrom.ro/romanian/editura/search.php?carte=chestiuni+speciale+de+electrotehnica>, 2015, (TC\_11\_2015\_DECIE)

4. Alin-Gheorghita Mazare, Laurentiu-Mihai Ionescu, *Tehnici CAD – îndrumar de laborator*, ISBN: 978-606-560-444-5, Ed. Universității din Pitești, 2015, 2015, (TC\_9\_2015\_DECIE)

5. Laurențiu-Mihai Ionescu, Alin Mazăre, *Aplicații cu circuite reconfigurabile*, ISBN: 978-606-560-445-2, Ed. Universității din Pitești, 2015, 2015, (TC\_9\_2015\_DECIE)

6. Daniel Alexandru Visan, Ioan Lita, Mariana Jurian, Ion Bogdan Cioc, *Dispozitive semiconductoare pentru microunde*, ISBN: 978-606-25-0172-3, 221 pg., Ed. Matrix Rom, Bucuresti, 2015, 2015, (TC\_3\_2015\_DECIE)

7. Alexandru Ene, *Programare pentru Web. Lucrări de laborator*, Editura Universității din Pitești, ISBN 978-606-560-424-7, 2015, 2015, (TC\_6\_2015\_DECIE)

8. Alexandru Ene, *Programare orientată pe obiecte. Lucrări de laborator*, Editura Universității din Pitești, ISBN 978-606-560-420-9, 2015, 2015, (TC\_6\_2015\_DECIE)
9. M. A. Chita, G. A. Iordachescu, *Grafică Asistată de Calculator, Teorie și Aplicații*, Editura MATRIXROM, ISBN 978-606-25-0183-9, Nr. de pagini 120, 2015, (TC\_6\_2015\_DECIE)
10. Gabriel V. Iana, *Procesarea Digitală a Semnalelor – Teorie și Aplicații*, ISBN 978-606-560-423-9, 138 pagini Editura Universitatii din Pitesti, 2015, (TC\_9\_2015\_DECIE)
11. Enescu Fl., *Inițiere în HMI/SCADA – Aplicații*, Editura Universității Pitești, 2015, pag. 185, 2015, 2015, (TC\_9\_2015\_DECIE)

## II. Lucrări (articole) ISI / BDI publicate în anul 2015

### II.1. Articole în reviste cotate ISI Thomson Reuters

1. Nicu Bizon, Marin Radut, Mihai Oproescu, *Energy control strategies for the Fuel Cell Hybrid Power Source under unknown load profile*, Energy 86 (15 June 2015) 31-41, Impact Factor: 4.292, 2015, (TC\_11\_2016\_DECIE, TC\_5\_2016\_DECIE)
2. N. Bizon, M. Oproescu, M. Raceanu, *Efficient Energy Control Strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source*, Energy Conversion Management 77 (15 January 2015), 768-772. doi:10.1016/j.enconman.2014.11.002 WOS:000348886800010, 2015, (TC\_5\_2015\_DECIE, TC\_11\_2015\_DECIE)

### II.2. Articole în volume indexate ISI Proceedings

1. Valeriu Manuel IONESCU, Adrian-Viorel DIACONU, *Rubik's cube principle based image encryption algorithm implementation on mobile devices*, ECAI 2015, ISSN-1843-2115, IEEE Catalog number: CFP1427U-PRT, pag. 13-19, Bucuresti, 23-25 Octombrie 2015, Indexare: ISI WoK, 2015, (TC\_10\_2015\_DECIE)
2. Valeriu Manuel IONESCU, *Load balancing techniques used in cloud networking and their applicability in local networking*, ECAI 2015 No. 32014, ISSN-1843-2115, IEEE Catalog number: CFP1427U-PRT, pag. 13-19, Bucuresti, 23-25 Octombrie 2015, Indexare: ISI WoK, 2015, (TC\_10\_2015\_DECIE)
3. Adrian-Viorel Diaconu, Valeriu Ionescu, *Simple, XOR based, image edge detection*, ECAI 2013, 27-29 June 2013, Page(s):1 - 4, Print ISBN:978-1-4673-4935-2, IEEEExplore DOI:10.1109/ECAI.2013.6636163, 2015, (TC\_10\_2015\_DECIE)
4. Valeriu Manuel IONESCU, *The analysis of the performance of RabbitMQ and ActiveMQ*, 2015 14th RoEduNet International Conference - Networking in Education and Research (NER'2015), September 24- 26, 2015, Craiova, ISBN 978-1-4673-8179-6, PG. 132-137, 2015, (TC\_10\_2015\_DECIE)
5. Gabriel V. IANA, Valeriu Manuel IONESCU, *Virtualization of VoIP laboratories*, 2015 14th RoEduNet International Conference - Networking in Education and Research (NER'2015), September 24- 26, 2015, Craiova, ISBN 978-1-4673-8179-6, PG. 115-120, 2015, (TC\_10\_2015\_DECIE)

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7. Valeriu Manuel Ionescu, Gabriel V. Iana, *Teaching virtualization laboratories in higher education*, 14th RoEduNet International Conference - Networking in Education and Research (NER'2015), Pages: 23-27, Published: 2015, Craiova, ISBN:978-1-4673-8180-2, ISSN: 2068-1038 DOI: 10.1109/RoEduNet.2015.7311822 Web of Science Categories: Computer Science, Hardware & Architecture; Computer Science, Information Systems WOS:000378414300004, 2015, (TC\_9\_2015\_DECIE)
8. Iorgulescu Mariana,, *Study of the lamp's influence on the power quality based on voltage and current analysis*,, Published in: Advanced Topics in Electrical Engineering (ATEE), 2015 9th International Symposium on, Page(s):729 – 734, Bucharest, Romania, DOI:10.1109/ATEE.2015.7133901, Publisher:IEEE, 2015, (TC\_11\_2015\_DECIE)
9. Mariana Iorgulescu, *ELECTRICAL MACHINES LEARNING AND TRAINING IN ONE2ONE PROJECT*, ECAI 2015, Vol. 7 – No. 3/ 2015 ISSN – 1843 – 2115, ISBN 978-1-4673-6647-2, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2015 7th International Conference on ,Page(s):WE-31 - WE-34, Print ISBN:978-1-4673-6646-5, INSPEC Accession Number:15556233, Conference Location Bucharest, DOI:10.1109/ECAI.2015.7301227, Publisher:IEEE, 2015, (TC\_11\_2015\_DECIE)
10. Bogdan-Adrian Enache, Magdalena Emilia Alexandru, Luminita-Mirela Constantinescu, *Extending the battery model from a single cell to a battery pack with BMS*, ECAI 2015 - International Conference - 7th Edition Electronics, Computers and Artificial Intelligence, 25 June -27 June, 2015, Bucharest, ROMÂNIA, Vol. 7 - No. 2/ 2015, ISSN - 1843 - 2115, AE-5-AE-14, IEEE, DOI: 10.1109/ECAI.2015.7301178, 2015/6/25, Print ISBN: 978-1-4673-6646-5, 2015, (TC\_11\_2015\_DECIE)
11. Enache, Bogdan-Adrian; Alexandru, Magdalena Emilia; Constantinescu, Luminita Mirela, *A LiFePO4 Battery Discharge Simulator for EV Applications-Part 1: Determining the Optimal Circuit Based Battery Model*,, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Location: Univ Politehnica Bucharest, Fac Elect Engn, Bucharest, ROMANIA Date: MAY 07-09, 2015., 2015, (TC\_12\_2015\_DECIE)
12. Enache, Bogdan-Adrian; Alexandru, Magdalena Emilia; Constantinescu, Luminita Mirela, *A LiFePO4 Battery Discharge Simulator for EV Applications-Part 2: Developing the Battery Simulator*, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Location: Univ Politehnica Bucharest, Fac Elect Engn, Bucharest, ROMANIA Date: MAY 07-09, 2015., 2015, (TC\_12\_2015\_DECIE)
13. Beloiu Robert, Bostan, Ionel, Iorgulescu Mariana, *Internationalization of educational programs through European projects*, Conference: 6th International Conference Edu World 2014 Education Facing Contemporary World Issues Location: Pitesti, ROMANIA Date: NOV 07-09, 2014 6TH INTERNATIONAL CONFERENCE EDU WORLD 2014: EDUCATION FACING CONTEMPORARY WORLD ISSUES Book Series: Procedia Social and Behavioral Sciences Volume: 180 Pages: 1007-1013 Published: 2015, 2015, (TC\_12\_2015\_DECIE)
14. Luminita Mirela CONSTANTINESCU, Yannick VILLENEUVE, *Electrical Power Analysis Learning And Implementation In One2One Project*, ECAI 2015 - International Conference - 7th Edition Electronics, Computers and Artificial Intelligence, 25 June -27 June, 2015, Bucharest, ROMÂNIA, Vol. 7 -

No. 3/ 2015 ISSN - 1843 - 2115, pg. WE-1-WE-6, IEEE, DOI: 10.1109/ECAI.2015.7301221, 2015/6/25, Print ISBN: 978-1-4673-6646-5, 2015, (TC\_12\_2015\_DECIE)

15. Cazacu Dumitru, Daniel Constantin, C. Stoica, *On the computation of the SAR for a 3D human head model using Ansys HFSS*, ECAI 2015 - International Conference – 7th Edition, Electronics, Computers and Artificial Intelligence, 25-27 June 2015, Bucharest, Romania, pp.81- 84, Print ISBN:978-1-4673-6646-5, DOI: 10.1109/ECAI.2015.7301257, 2015, (TC\_12\_2015\_DECIE)

16. Stoica Constantin, Cazacu Dumitru, Leonard Melcescu, *3D numerical modeling with FEM operation under load on the alternator claw poles.*, ECAI 2015 - International Conference – 7th Edition, Electronics, Computers and Artificial Intelligence, 25-27 June 2015, Bucharest, Romania, pp.75- 80, Print ISBN:978-1-4673-6646-5, DOI:10.1109/ECAI.2015.7301256, 2015, (TC\_12\_2015\_DECIE)

17. Barara, Mohamed; Abbou, Ahmed; Akherraz, Mohamed; Bogdan-Adrian Enache., *Experimental Analysis on a Self Excited Induction Generator for Standalone Wind Electric Pumping Stations.*, 12th International Conference on Development and Application Systems (DAS) Location: Suceava, ROMANIA Date: MAY 15-17, 2015, 2015, (TC\_12\_2015\_DECIE)

18. N. Digă, C. Ghiță, S. M. Digă, D. Constantin and C. Stoica, *Some Aspects of the Cogging Torque Study of a Permanent Magnet Synchronous Motor to Drive a Bicycle The 9th International Symposium ADVANCED TOPICS IN ELECTRICAL ENGINEERING, May 7 - 9, 2015, Bucharest, Romania, (indexed by the IEEE)*

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19. N. Digă, C. Ghiță, C. Stoica and S. M. Digă., *Particular Aspects of the Cogging Torque Reduction for Permanent Magnet Synchronous Motors Using Specialized Software*”, in *Proceedings of the 7th Edition International Conference on Electronics, Computers and Artificial Intelligence - ECAI 2015*, , 2015, (TC\_12\_2015\_DECIE)

20. C. Stoica. Constantin, D. Cazacu D, *On the computation of the SAR for a 3D human head model using Ansys HFSS* Electronics, Computers and Artificial Intelligence (ECAI), 2015 7th International Conference, , 2015, (TC\_12\_2015\_DECIE)

21. Constantin Stoica; Cazacu Dumitru ;Leonard Melcescu, *3D numerical modeling with FEM operation under load on the alternator claw poles. Electronics, Computers and Artificial Intelligence (ECAI), 2015 7th International Conference, , 2015, (TC\_12\_2015\_DECIE)*

22. Bogdan-Adrian Enache, Magdalena Emilia Alexandru, Luminita Mirela Constantinescu, *A LiFePO4 Battery Discharge Simulator for EV applications– Part 1: Determining the Optimal Circuit Based Battery*, Proceedings of Advanced Topics in Electrical Engineering (ATEE), 2015 9th International Symposium on, pp. 877 - 882, 2015, (TC\_12\_2015\_DECIE)

23. F. M. Enescu, Cosmin Știrbu C, A.I. Liță, *Image search algorithms Visual processing and query databases after the color descriptor*, ECAI 2015 (International Conference – 7th Edition, Electronics, Computers and, Artificial Intelligence, Bucharest, ROMÂNIA, 25 June -27 June 2015), Volume 1, volumul 1, P35-P40, 2015WOS:000370971100113, 2015, (TC\_2\_2015\_DECIE, TC\_6\_2015\_DECIE)

24. Daniel Alexandru Visan, Ioan Lita, Ion Bogdan Cioc, Rodica Mihaela Teodorescu, *A new approach for aerodynamic levitation based position control using digital image processing and data*

*acquisition*, 7th International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2015, pp. AE-19 - AE-22, Series Electronics, Computers and Artificial Intelligence, Vol. 7, Nr. 2, ISSN 1843-2115, ISBN: 978-1-4673-6646-5, IEEE Catalog Number CFP1527U-PRT, DOI: 10.1109/ECAI.2015.7301180, WOS:000370971100045, Universitatea Europei de Sud-Est Lumina, Bucuresti, <http://ieeexplore.ieee.org/>, Romania, 25-27 June 2015, 2015, (TC\_4\_2015\_DECIE)

25. Bostan, R. Beloiu, N. Bizon, *Learning digital frequency dividers through practical laboratory activities*, In the proceeding of 6th International Conference Edu World 2014 “Education Facing Contemporary World Issues”, 7th - 9th November 2014, Procedia - Social and Behavioral Sciences 180 (2015)1014 – 1021.  
WOS:000380497900152 <http://www.sciencedirect.com/science/article/pii/S1877042815015414>, 2015, (TC\_2\_2015\_DECIE, TC\_9\_2015\_DECIE)

26. Bostan Ionel, Guillermo Ferrando, Carlos Hoyos, *FPGA Implementation of Frequency dividers in Vocational Education*, 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI2015), 25-27 June 2015, Pages : WE-7 – WE10, WOS:000370971100087; doi: 10.1109/ECAI.2015.7301222, 2015, 2015, (TC\_2\_2015\_DECIE)

27. Cristian Ion Hoarca, Marian Raducu, *Performance comparison of three MPPT algorithms: AESC, mESC and P&O*, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, pp. S35-S42, București, Vol. 7 – No. 1/ 2015, ISBN – 978-1-4673-6646-5. <http://ieeexplore.ieee.org/document/7301158/>, 2015, (TC\_2\_2015\_DECIE)

28. Andrei Ion Bogdan, Nicu Bizon, *VOLTAGE-MODE CONTROL OF THE DC-DC POWER CONVERTER - A SHORT REVIEW*, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, ISSN 1843–2115  
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29. Mazare, A., Ionescu, L.-M. , Lita, A.-I. , Serban, G. , Ionut, M, *Mobile system with real time route learning using Hardware Artificial Neural Network*, 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), pp. 45-48, DOI:10.1109/ECAI.2015.7301250, ISBN 978-1-4673-6646-5 , Bucharest, Romania, June, 2015, 2015, (TC\_7\_2015\_DECIE, TC\_9\_2015\_DECIE)

30. L.M. Ionescu, A. Mazare, A.I. Lita, G. Serban, *Fully Integrated Artificial Intelligence Solution for Real Time Route Tracking*, 38th International Spring Seminar on Electronics Technology "Novel Trends in Electronics Manufacturing" ISSE, Edger, Hungary, 2015, 2015, (TC\_7\_2015\_DECIE, TC\_9\_2015\_DECIE)

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32. Berechet, V.A. ; Ionescu, L.M. ; Mazare, A.G. ; Lita, I., *Real time PCB diagnosis using FPGA - implemented video analysis tool*, 2015 IEEE 21st International Symposium for Design and Technology in Electronic Packaging (SIITME), pp. 201-205, DOI:10.1109/SIITME.2015.7342323, Brasov, Romania 2015, 2015, (TC\_7\_2015\_DECIE, TC\_9\_2015\_DECIE)

33. Ionescu, L.M., Mazare, A.G., Berechet, V.A., Lita, I., *Real - time system for shape extraction from an image*, 2015 IEEE 21st International Symposium for Design and Technology in Electronic Packaging (SIITME), pp. 205 – 208, DOI:10.1109/SIITME.2015.7342324, Brasov, Romania 2015, 2015, (TC\_7\_2015\_DECIE, TC\_9\_2015\_DECIE)
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35. F. M. Enescu, Cosmin Știrbu C, A.I. Liță, *Image search algorithms*, ECAI 2015 (International Conference – 7th Edition, Electronics, Computers and, Artificial Intelligence, Bucharest, ROMÂNIA, 25 June -27 June 2015), Volume 1, volumul 1, P35-P40, 2015, 2015, 2015, (TC\_2\_2015\_DECIE, TC\_6\_2015\_DECIE)
36. I. B. Cioc; M. Jurian; I. Lita; R. M. Teodorescu, *A method for increasing security in electronic communication services based on text messages communication*, 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7297040>), Bucharest, ROMANIA, JUN 25-27, 2015, Pages: AE-23 - AE-26, WOS:000370971100046, ISBN:978-1-4673-6647-2, ISSN: 2378-7147, DOI: 10.1109/ECAI.2015.7301181 (<https://doi.org/10.1109/ECAI.2015.7301181>), IEEE Conference Publications, Print ISBN: 978-1-4673-6646-5, 2015, (TC\_6\_2015\_DECIE, TC\_3\_2015\_DECIE)
37. R. M. Teodorescu, I. Lita, I. B. Cioc, D. A Visan, *Virtual instrumentation application for symmetrical and asymmetrical text encryption/decryption studying*, 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7297040>), Bucharest, ROMANIA, JUN 25-27, 2015, Pages: P23 - P26, WOS:000370971100110, ISBN:978-1-4673-6647-2, ISSN: 2378-7147, DOI: 10.1109/ECAI.2015.7301245(<https://doi.org/10.1109/ECAI.2015.7301245>) IEEE Conference Publications, Print ISBN: 978-1-4673-6646-5, 2015, (TC\_6\_2015\_DECIE, TC\_3\_2015\_DECIE)
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43. Corina Savulescu, Zdzislaw Polkowski, Deaconescu Ionut Cosmin, Blidaru Cătălina Elena, *Security in e-learning systems*, Data publicării 2015/6/25 Conferință Electronics, Computers and Artificial Intelligence (ECAI), 2015 7th International Conference on Pagine WE-19-WE-24 Editor IEEE region>), 2015, (TC\_6\_2015\_DECIE)
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45. Anghelescu Petre, Iana Gabriel, Tramandan Ionut, *Human footstep detection using seismic sensors*, The 7th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2015, Vol. 7, Number 2/2015, ISSN – 1843 – 2115, DOI: 10.1109/ECAI.2015.7301179, pp. 14 – 18, Bucharest, 25 – 27 June 2015., 2015, (TC\_9\_2015\_DECIE)
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### **II.3. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale**

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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 2015 la nivel de departament**

Categoria / subcategoria activității de cercetare științifică	2015	Total
I. Cărți și capitole în cărți		
I.1 de specialitate, internaționale (autor)	2	2
II. Lucrări (articole) ISI / BDI		
II.1 în reviste cotate ISI	2	2
II.2 în volume indexate ISI Proceedings	47	47
II.3 în reviste /volumele unor manifestări științifice indexate BDI	29	29
III. Lucrări (articole) neindexate		
III.1 în reviste	0	0
III.2 în volumele manifestărilor științifice	2	2

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