

**UNIVERSITATEA din Pitești**

**Facultatea de Electronica, Comunicatii si Calculatoare**

*Departamentul de Electronica, Calculatoare si Inginerie Electrica*

*Centrul de Cercetare Modelarea si Simularea Proeselor si Sistemelor (CCMSPS)*

## **Rezultatele activităților de cercetare la nivelul Centrului de Cercetare Modelarea si Simularea Proceselor si Sistemelor (CCMSPS)**

**in 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)

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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 CorchadoSpringer: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 IspasSpringer: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. 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)

## 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.2016.7528310Web of Science Categories:Engineering, Electrical & Electronic; TelecommunicationsWOS: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. Valeriu Manuel IONESCU, Dumitru CAZACU, *Analysis of COMSOL Multiphysics Parallel Performance on a multi-core system*, The International Conference on Applied and Theoretical Electricity (ICATE) 2016, Craiova, Romania, 6-8 Oct 2016, ISBN: 978-1-4673-8561-9, pg 1-4 (RS2.1) , Indexare: ISI WoK, 2016, (TC\_10\_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. 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)
7. 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)
8. 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)
9. 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)
10. 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)
11. 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)

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13. 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)
14. 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)
15. 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)
16. 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)
17. V. Nicolae, L. M. Ionescu , N. Belu, L. E. Știrbu, *Improvement of the 8D Analysis Through a System Based on the &quot;Internet of Things&quot; 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)
18. Florin-Marian Birleanu, Bogdan-Adrian Enache, Magdalena Alexandru, *First Steps Towards Designing a Compact Language for the Description of Logic Circuits*, Proceedings of "2016 International Conference on COMMUNICATIONS (COMM 2016)", June 9-11, Bucharest, Romania, pp. 357-360, ISBN 978-1-4673-8196-3, 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[IEEEXplore] [Scopus], 2016, (TC\_5\_2016\_DECIE, TC\_11\_2016\_DECIE)
8. 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)
9. 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)
10. 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)
11. 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)

12. 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)
13. Ferando Georgel Birleanu, Nicu Bizon, *Reconfigurable computing in hardware security - A brief review and application*, Journal of Electrical Engineering, Electronics, Control and Computer Science – JEECCS 2016;2(1):1-12.  
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14. Hoarcă Ioan Cristian, Nicu Bizon, *Performance of the Global MPPT Algorithms – a brief overview and case studies*, 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\_6\_2016\_DECIE)
15. J. A. Ramos-Hernanz, J.M. Lopez-Guede, E. Zulueta-Guerrero, Nicu Bizon, Fernando Oterino-Echavarri, Andres Larrea, *Study of the behavior of the Incremental Conductance algorithm for MPPT*, 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)
16. 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)
17. LM Ionescu, N Belu, N Rachieru, AG Mazăre, DC Anghel, *Monitoring of manufacturing processes in the automotive industry using indoor location system*, IOP Conference Series: Materials Science and Engineering, Vol. 145, Issue 2, Pp. 022020, doi:10.1088/1757-899X/145/2/022020, 2016, 2016, (TC\_9\_2016\_DECIE)
18. L. M. Ionescu, A. Gh. Mazare, N. Belu, *Led display command system using Zynq 7000 system on chip*, University of Pitesti Scientific Bulletin, Series: Electronics and Computers Science, pg 33-36, 2016, ISSN: 2344-2158, 2344-2166. (BDI: Index Copernicus, Genamics, ICI Journals Master List), 2016, (TC\_9\_2016\_DECIE)
19. Ioan Lita, Daniel Alexandru Visan, Alin Gheorghita Mazare, *Experimental module for assistive technologies applications*, 2016 IEEE 22th International Symposium for Design and Technology in Electronic Packages - SIITME 2016, pp 304 - 307, ISBN: 978-1-5090-4444-3, IEEE Catalog Number: CFP1607I-USB, Digital Object Identifier: 10.1109/SIITME.2016.7777300, <http://ieeexplore.ieee.org/>, University of Bucharest, Center for Technological Electronics and Interconnection Techniques and University of Oradea, Department of Electronics and Telecommunications, Oradea, Romania, 20 – 23, October 2016, 2016, (TC\_2\_2016\_DECIE)
20. Corina Savulescu, Dumitru Brebeanu, *A Software Application for the Statistical Control Used in Quality Engineering*, <http://jeeccs.net/index.php/journal/article/viewFile/28/17>, 2016, (TC\_2\_2016\_DECIE)
21. 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

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### III. Lucrări (articole) publicate în anul 2016 în reviste și volume de conferințe cu referenți (neindexate)

#### III.2. Articole în volumele manifestărilor științifice

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2. Teodorescu Rodica-Mihaela, *Proiectarea pe bază de sinteză a uniportului de tip RC*, Simpozionul Internațional „DISPONIBILITATI CREATIVE IN LUME” – Ediția a VII-a, ISBN 978-606-576-712-6, Editura PIM, <https://scholar.google.ro/citations?user=f8mcCn0AAAAJ&hl=ro>, 2016, (TC\_2\_2016\_DECIE)
3. Leila Graini, Kaddour Saouchi, Silviu Ionita, Grigore-Adrian Iordachescu, *Chirp Compensation of Similaritons for Optical Communication Systems*, ICESTI, Annaba (Algeria), 2016, (TC\_3\_2016\_DECIE)

### IV. Granturi / proiecte de cercetare în anul 2016

#### F1. Granturi / proiecte câștigate prin competiție internațională

1. *Cost-Efficient Data Collection for Smart Grid and Revenue Assurance*, L. Ionescu, s.a, 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)

#### F2. Granturi / proiecte câștigate prin competiție națională

1. Nicu Bizon, *Validarea experimentală a unui sistem de propulsie cu pile de combustibil cu hidrogen pentru un autovehicul ușor - Demonstrator de Mobilitate cu Hidrogen*, Validarea experimentală a unui sistem de propulsie cu pile de combustibil cu hidrogen pentru un autovehicul ușor - Demonstrator de Mobilitate cu Hidrogen, PN-III-P2-2.1-PED-2016-1223; director Mihai Varlam, Institutul National De Cercetare-Dezvoltare pentru Tehnologii Criogenice si Izotopice - I.C.S.I. Ramnicu Valcea; partener UNIVERSITATEA PITESTI, responsabil proiect: Nicu Bizon, nr. 53PED-2017, 2016, (TC\_5\_2016\_DECIE, TC\_11\_2016\_DECIE)
2. Iana Vasile Gabriel, Mihai Oproescu, Silviu Ionita, *Sistem de achiziție, monitorizare, analiză și recunoaștere a vibrațiilor pentru protecția infrastructurilor critice*, UEFISCDI PN-III-P2-2.1-PTE-2016-0215, NR. 56PTE/2016 / Responsabil partener UPIT / 2016-2018 / (valoare UPIT=400520 lei), 2016, (TC\_4\_2016\_DECIE, TC\_9\_2016\_DECIE)

**Sinteza rezultatelor activităților de cercetare la nivelul Centrului de Cercetare Modelarea  
si Simularea Proceselor si Sistemelor (CCMSPS) in anul 2016**

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)	4	4
I.3 de specialitate, internaționale (editor)	0	0
I.4 de specialitate, naționale (editor)	0	0
I.5 Manuale didactice, suporturi de curs	25	25
I.6 Îndrumare de laborator, culegere de pb.	10	10
II. Lucrări (articole) ISI / BDI		
II.1 în reviste cotate ISI	6	6
II.2 în volume indexate ISI Proceedings	18	18
II.3 în reviste /volumele unor manifestări științifice indexate BDI	50	50
III. Lucrări (articole) neindexate		
III.1 în reviste	0	0
III.2 în volumele manifestărilor științifice	3	3
IV. Granturi / proiecte de cercetare		
IV.1 câștigate prin competiție internațională	1	1
IV.2 câștigate prin competiție națională	2	2
IV.3 cu mediul socio-economic	0	0