

Rezultatele activităților de cercetare la nivel de departament în 2017

B. Cărți și capitole în cărți publicate în 2017

B1. Cărți și capitole în cărți de specialitate internaționale ca autor (cu ISBN extern)

1. Nicu Bizon, *Energy Harvesting from the Fuel Cell Hybrid Power Source Based on Extremum Seeking Control Schemes*, In N. Bizon, N. M. Tabatabaei, Frede Blaabjerg, and Erol Kurt (Ed.), *Energy Harvesting and Energy Efficiency: Technology, Methods and Applications*, Springer Verlag London Limited, 2017; eBook ISBN: 978-3-319-49875-1; DOI 10.1007/978-3-319-49875-1; Hardcover ISBN 978-3-319-49874-4; Series ISSN 2195-1284 661 Pages 329-370 <http://www.springer.com/us/book/9783319498744>, 2017, (TC_5_2017_DECIE)

2. Nicu Bizon, Mircea Raceanu, *Energy Efficiency of PEM Fuel Cell Hybrid Power Source*, In N. Bizon, N. M. Tabatabaei, Frede Blaabjerg, and Erol Kurt (Ed.), *Energy Harvesting and Energy Efficiency: Technology, Methods and Applications*, Springer Verlag London Limited, 2017; eBook ISBN: 978-3-319-49875-1; DOI 10.1007/978-3-319-49875-1; Hardcover ISBN 978-3-319-49874-4; Series ISSN 2195-1284 661 Pages 371-391 <http://www.springer.com/us/book/9783319498744>, 2017, (TC_5_2017_DECIE)

3. Florentina Magda Enescu, Nicu Bizon, *SCADA Applications for Electric Power System*, In N. M. Tabatabaei, N. Bizon, A. J. Aghbolaghi, and Frede Blaabjerg (Ed.), *Fundamentals and Contemporary Issues of Reactive Power Control in AC Power Systems*, Springer Verlag London Limited, 2017; eBook ISBN: 978-3-319-51118-4, Hardcover ISBN: 978-3-319-51117-7; Series ISSN: 1612-1287 DOI 10.1007/978-3-319-51118-4 pp. 561-609. <http://www.springer.com/gp/book/9783319511177> , 2017, (TC_1_2017_DECIE)

4. Nicu Bizon, Marian Raducu, Luminița-Mirela Constantinescu, Mihai Oproescu, *Energy Harvesting from the Photovoltaic Hybrid Power Source Based on Extremum Seeking Control Schemes*, In N. Bizon, N. M. Tabatabaei, Frede Blaabjerg, and Erol Kurt (Ed.), *Energy Harvesting and Energy Efficiency: Technology, Methods and Applications*, Springer Verlag London Limited, 2017; eBook ISBN: 978-3-319-49875-1; DOI 10.1007/978-3-319-49875-1; Hardcover ISBN 978-3-319-49874-4; Series ISSN 2195-1284 661 Pages 143-176 <http://www.springer.com/us/book/9783319498744>, 2017, (TC_5_2017_DECIE)

5. Anghelescu Petre, *Cellular Automata Algorithms for Digital Image Processing*, *Intelligent Analysis of Multimedia Information*, IGI Global, pp. 212-231, 2017. DOI: 10.4018/978-1-5225-0498-6.ch007, 2017, (TC_12_2017_DECIE)

B2. Cărți și capitole în cărți de specialitate naționale ca autor (cu ISBN intern)

1. Teodorescu Rodica-Mihaela, Liță Ioan, Cioc Ion Bogdan, Vișan Daniel Alexandru, Radu Dragoș-Gheorghe, *Tehnici pentru generarea și vizualizarea virtuală a semnalelor*, ISBN 978-606-560-289-2, nr. pag. 142, Editura Universității din Pitești, <http://biblioteca.upit.ro/>, 2017, (TC_4_2017_DECIE)

2. M.A. Chita, *Senzori si actuatoare*, Editura MatrixROM, Bucuresti, 2017, 202 pag., ISBN 978-606-25-0332-1, 2017, (TC_4_2017_DECIE)

3. Valeriu Manuel Ionescu, *Sisteme de operare*, EDITURA UNIVERSITATII DIN PITESTI ISBN 978-606-560-567-1148PG, 2017, (TC_14_2017_DECIE)

B5. Manuale didactice, suport de curs

1. Chita, M.A., *Senzori si actuatori utilizati in procese industriale - Note de curs*, , 2017

2. Chita, M.A., *Senzori inteligenti - Note de curs*, , 2017

C. Lucrări (articole) ISI / BDI publicate în 2017

C1. Articole în reviste cotate ISI Thomson Reuters

1. Nicu Bizon, *Energy optimization of Fuel Cell System by using Global Extremum Seeking algorithm*, Nicu Bizon. *Energy optimization of Fuel Cell System by using Global Extremum Seeking algorithm*. *Applied Energy* 2017;206:458-474 15 November 2017 <https://doi.org/10.1016/j.apenergy.2017.08.097> Impact Factor: 7.182 WOS:000415768400041, 2017, (TC_9_2017_DECIE)

2. Nicu Bizon, Erol Kurt, *Performance Analysis of the Tracking of the Global Extreme on Multimodal Patterns using the Asymptotic Perturbed Extremum Seeking Control Scheme*, Nicu Bizon, E. Kurt. *Performance Analysis of the Tracking of the Global Extreme on Multimodal Patterns using the Asymptotic Perturbed Extremum Seeking Control*

Scheme. International Journal of Hydrogen Energy 2017; 42(28):17645-54 <http://dx.doi.org/10.1016/j.ijhydene.2016.11.173> 13 July 2017, Impact Factor: 3.205 WOS:000406726000009, 2017, (TC_9_2017_DECIE)

3. Nicu Bizon, Phatiphat Thounthong, Marian Raducu, Luminita Mirela Constantinescu, *Designing and Modelling of the Asymptotic Perturbed Extremum Seeking Control Scheme for Tracking the Global Extreme*, Nicu Bizon, Phatiphat Thounthong, Marian Raducu, Luminita Mirela Constantinescu. *Designing and Modelling of the Asymptotic Perturbed Extremum Seeking Control Scheme for Tracking the Global Extreme*. International Journal of Hydrogen Energy 2017; 42(28):17632-44, <http://dx.doi.org/10.1016/j.ijhydene.2017.01.086> Impact Factor: 3.205 WOS:000406726000008, 2017, (TC_20_2017_DECIE)

4. Nicu Bizon, *Searching of the Extreme Points on Photovoltaic Patterns using a new Asymptotic Perturbed Extremum Seeking Control scheme*, Nicu Bizon. *Searching of the Extreme Points on Photovoltaic Patterns using a new Asymptotic Perturbed Extremum Seeking Control scheme*. Energy Conversion and Management 2017;144:286–302; <https://doi.org/10.1016/j.enconman.2017.04.065> Impact Factor: 5.589 WOS:000403031600025, 2017, (TC_5_2017_DECIE)

5. Sanda Victorinne Paturica, Daniel Petre, Ana Maria Dumitrescu, Valeriu Bostan, Ionel Bostan, Robert Beloiu, *A robotics laboratory for bio-engineering students*, Journal of Biotechnology, Vol. 256, Supplement, 30 August 2017, Pages S57, ISSN: 0168-1656, Impact Factor 2016 = 2.599; WOS:000413585400176; DOI:10.1016/j.jbiotec.2017.06.991; Articol in zona galbena, Biotechnology and Applied Microbiology Zona 2 /Top 60., 2017, (TC_11_2017_DECIE)

C2. Article in volume indexed ISI Proceedings

1. Mazare, A. G; Belu, N.; Ionescu, L. M.; Rachieru, N.; Misztal, A., *Non-invasive system for monitoring of the manufacturing equipment*, MODTECH INTERNATIONAL CONFERENCE - MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING VBook Series: IOP Conference Series-Materials Science and Engineering, Volume: 227, DOI: 10.1088/1757-899X/227/1/012078, Published: 2017, ISSN: 1757-8981, 2017, (TC_7_2017_DECIE)

2. Ionescu, L. M.; Mazare, A.; Serban, G.; Ionita, S., *Real time monitoring system used in route planning for the electric vehicle*, INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING - MOBILITY ENGINEERING AND ENVIRONMENT (CAR2017) Book Series: IOP Conference Series-Materials Science and Engineering Volume: 252 Article Number: UNSP 012095 DOI: 10.1088/1757-899X/252/1/012095 Published: 2017 Conference: 11th International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment (CAR) Location: Pitesti, ROMANIA Date: NOV 08-10, 2017 Publisher IOP PUBLISHING LTD, DIRAC HOUSE, TEMPLE BACK, BRISTOL BS1 6BE, ENGLAND Accession Number: WOS:000419817200095 ISSN: 1757-8981, 2017, (TC_11_2017_DECIE)

3. Valeriu Bostan, Gabriel Colt, Tiberiu Tudorache, Sanda Victorinne Paturca, Ionel Bostan, *Analysis of a Photovoltaic-Thermal Panel Using Comsol and Simulink/Simscape Tools*, 10TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE); Bucharest 23-25.03.2017; ISBN:978-1-5090-5160-1; ISSN: 1843-8571; Pages: 774-777; Published: 2017; DOI: 10.1109/ATEE.2017.7905079, 2017, (TC_2_2017_DECIE)

4. Nicu Bizon, Marian Raducu, Luminita Constantinescu, Mihai Oproescu, *Energy Harvesting from the Photovoltaic Hybrid Power Source Based on Extremum Seeking Control Schemes*, Lecture Notes in Energy Volume: 37 Pages: 143-176 DOI: 10.1007/978-3-319-49875-1_6 Published: 2017, 2017, (TC_5_2017_DECIE)

5. Lita, Ioan; Visan, Daniel Alexandru; Mazare, Alin Gheorghita, *Experimental module for assistive technologies applications*, 22nd IEEE International Symposium for Design and Technology in Electronic Packaging (SIITME) Location: Oradea, ROMANIA Date: OCT 20-23, 2016, ISBN:978-1-5090-4446-7, 2017, (TC_2_2017_DECIE)

6. Sisman George, Mihai Oproescu, *Monitoring the Parameters of the Electronics Devices to Assure the Predictive Maintenance of Equipment*, 2017 10TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Book Series: International Symposium on Advanced Topics in Electrical Engineering Pages: 832-835 Published: 2017, 2017, (TC_5_2017_DECIE)

7. Boroiu, A.A., Tabacu, I., Ene, A., Neagu, E., Boroiu, A., *Computing programs for determining traffic flows from roundabouts*, Boroiu, A.A., Tabacu, I., Ene, A., Neagu, E., Boroiu, A. – Computing programs for determining traffic flows from roundabouts, CAR 2017, 8-10.11.2017, Pitesti, 2017, (TC_10_2017_DECIE)

8. Daniel-Constantin Anghel, A Ene, Cosmin Stirbu, Gina Sicoe, *A neural networks application for the study of the influence of transport conditions on the working performance*, The International Congress of Automotive and Road Transport Engineering, CAR2017, 8-10 November 2017, Pitesti, ROMANIA WOS:000419817200043, 2017, (TC_11_2017_DECIE)

9. Silviu IONITA, *Autonomous vehicles: from paradigms to technology*, Book Group Author(s): IOP Conference: 11th International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment (CAR) Location: Pitesti, ROMANIA Date: NOV 08-10, 2017.INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING - MOBILITY ENGINEERING AND ENVIRONMENT (CAR2017) Book Series: IOP Conference Series-Materials Science and Engineering Volume: 252 Article Number: UNSP 012098 Published: 2017.Accession Number: WOS:000419817200098, 2017, (TC_11_2017_DECIE)

C3. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale

1. Nicu Bizon ; Mihai Culcer ; Mihai Oproescu ; Gabriel Iana ; Ionescu Laurentiu ; Alin Mazare ; Mariana Iliescu, *Real-time strategy to optimize the Airflow rate of Fuel Cell Hybrid Power Source under variable load cycle*, Published in: Applied Electronics (AE), 2017 International Conference on Date of Conference: 5-6 Sept. 2017 Date Added to IEEE Xplore: 02 October 2017 DOI: 10.23919/AE.2017.8053577, 2017, (TC_13_2017_DECIE)

2. Mihai Catalin Arva, Nicu Bizon, Augustin Micu, *Proposal of an accurate and low complexity method for frequency estimation using DFT interpolation*, Mihai Catalin Arva, Nicu Bizon, Augustin Micu. Proposal of an accurate and low complexity method for frequency estimation using DFT interpolation, 40th International Conference on Telecommunications and Signal Processing (TSP'2017) 5-7 July 2017, 10.1109/TSP.2017.8076031 <http://ieeexplore.ieee.org/document/8076031/> (will be indexed in ISI WoS)., 2017, (TC_17_2017_DECIE)

3. L. M. Ionescu, A. Mazare, M. Oproescu, I. Lita, G. Serban, B. Nadia, *Electricity consumption measurement system for detecting losses occurring in power transmission networks*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2017 9th International Conference on Date of Conference: 29 June-1 July 2017 Date Added to IEEE Xplore: 07 December 2017 ISBN Information: Electronic ISBN: 978-1-5090-6458-8 Print ISBN: 978-1-5090-6457-1 USB ISBN: 978-1-5090-6456-4 Print on Demand (PoD) ISBN: 978-1-5090-6459-5 INSPEC Accession Number: 17415558 DOI: 10.1109/ECAI.2017.8166469 Publisher: IEEE Conference Location: Targoviste, Romania, 2017, (TC_10_2017_DECIE)

4. Daniel Alexandra Visan; Laurentiu Mihai Ionescu; Alin Gheorghita Mazare; Adrian Ioan Lita, *Line encoder with serial data transmission for automotive applications*, 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME) Pages: 349 - 352 Date Added to IEEE Xplore: 18 January 2018 DOI: 10.1109/SIITME.2017.8259922, 2017, (TC_16_2017_DECIE)

5. Adrian Ioan Lita; Daniel Alexandru Visan; Alin Gheorghita Mazare; Laurentiu Mihai Ionescu, *Door automation system for smart home implementation*, 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME) Pages: 345 - 348 Date Added to IEEE Xplore: 18 January 2018 DOI: 10.1109/SIITME.2017.8259925, 2017, (TC_16_2017_DECIE)

6. Alin Gheorghita Mazare; Laurentiu Mihai Ionescu; Daniel Alexandru Visan; Nadia Belu; Ioan Lita; T. Eilks; V. Stan; C. Colceriu, *Intelligent system for determining the consumer profile and generate alarm in case of significant deviations from the profile*, 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME) Pages: 361 - 366 Date Added to IEEE Xplore: 18 January 2018 DOI: 10.1109/SIITME.2017.8259926, 2017, (TC_16_2017_DECIE)

7. L.M. Ionescu, A. Mazăre, A.I. Liță, D. Visan, G. Serban, N. Belu, A. Sanmarghitan, T. Goeller, S. Balauta, *Current consumption monitoring and analysis system for energy management improvement in an industrial complex*, Published in: Design and Technology in Electronic Packaging (SIITME), 2017 IEEE 23rd International Symposium for Date of Conference: 26-29 Oct. 2017 Pages: 286 - 291 Date Added to IEEE Xplore: 18 January 2018 ISBN Information: Electronic ISBN: 978-1-5386-1626-0 USB ISBN: 978-1-5386-1625-3 Print on Demand (PoD) ISBN: 978-1-5386-1627-7 DOI: 10.1109/SIITME.2017.8259909 Publisher: IEEE Conference Location: Constanta, Romania, Romania, 2017, (TC_10_2017_DECIE)

8. Oproescu Mihai, Nicu Bizon, Gabriel Iana, Florin Birleanu, Ioan Lita, *Optimize of the long-term supply for a detection, vibration monitoring and recognition of the critical infrastructure protection system*, Published in: Applied Electronics (AE), 2017 International Conference on Date of Conference: 5-6 Sept. 2017 Date Added to IEEE Xplore: 02 October 2017 DOI: 10.23919/AE.2017.8053603, 2017, (TC_13_2017_DECIE)

9. Florin-Marian Birleanu, Vasile-Gabriel Iana, Mihai Oproescu, Silviu Ionita, *Feature extraction for distance-based classification of signal sources*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2017 9th International Conference on Date of Conference: 29 June-1 July 2017 Date Added to IEEE Xplore: 07 December 2017 DOI: 10.1109/ECAI.2017.8166433, 2017, (TC_13_2017_DECIE)

10. Nicu Bizon, Mihai Culcer, Mariana Iliescu, Alin Mazare, Ionescu Laurentiu, Robert Beloiu, *Real-time strategy to optimize the Fuel Flow rate of Fuel Cell Hybrid Power Source under variable load cycle*, Nicu Bizon, Mihai Culcer, Mariana Iliescu, Alin Mazare, Ionescu Laurentiu, Robert Beloiu. Real-time strategy to optimize the Fuel Flow rate of Fuel

Cell Hybrid Power Source under variable load cycle. ECAI - 9th Edition of International Conference on Electronics, Computers and Artificial Intelligence. Targoviste, ROMÂNIA, 29 June -01 July, 2017 <http://ieeexplore.ieee.org/document/8166513/> (will be indexed in ISI WoS)., 2017, (TC_20_2017_DECIE)

11. Nicu Bizon, Mihai Culcer, Mariana Iliescu, Marian Raducu, Luminita-Mirela Constantinescu, *Real-time strategy to optimize the operation of Fuel Cell Hybrid Power Source under variable load cycle*, Nicu Bizon, Mihai Culcer, Mariana Iliescu, Marian Raducu, Luminita-Mirela Constantinescu. Real-time strategy to optimize the operation of Fuel Cell Hybrid Power Source under variable load cycle. ECAI - 9th Edition of International Conference on Electronics, Computers and Artificial Intelligence. Targoviste, ROMÂNIA, 29 June -01 July, 2017 <http://ieeexplore.ieee.org/document/8166514/> (will be indexed in ISI WoS)., 2017, (TC_15_2017_DECIE)

12. C. I. Hoarcă, Nicu Bizon, I. Ștefănescu, L. Pătularu, *Simulation interface of photovoltaic (pv) cell, pv module, and pv array using simulink*, C. I. Hoarcă, Nicu Bizon, I. Ștefănescu, L. Pătularu. Simulation interface of photovoltaic (pv) cell, pv module, and pv array using simulink. 17th International Multidisciplinary Scientific GeoConference SGEM 2017, www.sgem.org, SGEM2017 Conference Proceedings, ISBN 978-619-7408-07-2 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 42, 545-556 pp, DOI: 10.5593/sgem2017/42/S17.069 <https://sgemworld.at/sgemlib/spip.php?article10237> Scopus, 2017, (TC_18_2017_DECIE)

13. Valeriu Bostan, Ana Ruxandra Toma, Tiberiu Tudorache, Sanda Victorinne Pațurcă, Ana-Maria Dumitrescu, Ionel Bostan, *Performance analysis of polycrystalline and CIS thin-film PV panels in real operation conditions*, 5th International Symposium on Electrical and Electronics Engineering (ISEEE); 20-22 Oct. 2017, Galati, Romania, pp 1-4; DOI: 10.1109/ISEEE.2017.8170692, 2017, (TC_2_2017_DECIE)

14. Teodorescu Rodica Mihaela, *Foster and Cauer synthesis used in designing one-ports RC*, University of Pitesti Scientific Bulletin, Series: Electronics and Computers Science, pISSN: 2344–2158 (old pISSN 1453-1119) eISSN: 2344 – 2166, Index Copernicus Journal Master List, graded with an ICV = 81.62 (2016); Genamics Database; CNCSIS B+ category, pg. 1-6, 2017, 2017, (TC_2_2017_DECIE)

15. Stănică Dorin-Mirel ; Ioan Lita ; Mihai Oproescu, *Intelligent control system with application in nuclear equipment*, Published in: Design and Technology in Electronic Packaging (SIITME), 2017 IEEE 23rd International Symposium for Date of Conference: 26-29 Oct. 2017 Date Added to IEEE Xplore: 18 January 2018 ISBN Information: DOI: 10.1109/SIITME.2017.8259923 Publisher: IEEE Conference Location: Constanta, Romania, Romania, 2017, (TC_2_2017_DECIE)

16. Silviu Ionita, Gabriel Iana, *NQR detector: HW solutions and constructive issues*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2017 9th International Conference on Date of Conference: 29 June-1 July 2017 Date Added to IEEE Xplore: 07 December 2017 DOI: 10.1109/ECAI.2017.8166506, 2017, (TC_13_2017_DECIE)

17. Adrian Ioan Lita, Daniel Alexandru Visan, Alin Gheorghita Mazare, Ioan Lita, *Microcontroller based thermal enclosure for electronic boards testing*, Electronics Technology (ISSE), 2017 40th International Spring Seminar on, Date of Conference: 10-14 May 2017 Date Added to IEEE Xplore: 08 August 2017 Electronic ISBN: 978-1-5386-0582-0 Print on Demand (PoD) ISBN: 978-1-5386-0583-7, DOI: 10.1109/ISSE.2017.8000940, 2017, (TC_2_2017_DECIE)

18. Daniel Alexandru Visan ; Ioan Lita ; Laurentiu Mihai Ionescu ; Ion Bogdan Cioc, *Simulation and implementation of a pulse position modulator for short-range optical communication systems*, Published in: Electronics Technology (ISSE), 2017 40th International Spring Seminar on, Date of Conference: 10-14 May 2017 Date Added to IEEE Xplore: 08 August 2017 Electronic ISBN: 978-1-5386-0582-0 Print on Demand (PoD) ISBN: 978-1-5386-0583-7 Electronic ISSN: 2161-2536 DOI: 10.1109/ISSE.2017.8000958, 2017, (TC_13_2017_DECIE)

19. Rodica Mihaela Teodorescu; Ion Bogdan Cioc, *5th order Chebyshev LC-band pass filter designing and testing using virtual methods*, 2017 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Electronic ISBN: 978-1-5090-6458-8 USB ISBN: 978-1-5090-6456-4 DOI: 10.1109/ECAI.2017.8166496 Publisher: IEEE Conference Location: Targoviste, Romania , 2017, (TC_4_2017_DECIE)

20. Madalina Mandoiu, Răzvan Alexandru Geambașu, Grigore-Adrian Iordachescu, Monica-Anca Chita, *AutoCAD Games Library for Didactic Purposes*, Journal of Electrical Engineering, Electronics, Control and Computer Science Vol 3, No 4 (2017), Special Number dedicated to SCCSS 2017 ISSN 2457-7812, ISSN-L 2457-7812 BDI: Google Scholar, Copernicuslink: <http://jeeccs.net/index.php/journal/issue/view/12>, 2017, (TC_3_2017_DECIE)

21. Daniel Alexandru VISAN, Mariana JURIAN, Adrian Ioan LITA, *Virtual instrumentation based acquisition and synthesis module for communication signals*, 9th International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2017, pp. 1 - 4, Series Electronics, Computers and Artificial Intelligence, Vol. 8 - 2016, ISSN 1843-2115, ISBN: 978-1-5090-2046-1, DOI: 10.1109/ECAI.2017.8166479, "Valahia" University, Faculty of Electrical Engineering, Electronics and Information Technology, Targoviste, Romania, <http://ieeexplore.ieee.org/>, 29 June-01 July 2017, 2017, (TC_3_2017_DECIE)

22. Stănică Dorin-Mirel ; Ioan Lita ; Mihai Oproescu, *Comparative analysis of stepper motors in open loop and closed loop used in nuclear engineering*, Published in: Design and Technology in Electronic Packaging (SIITME), 2017 IEEE 23rd International Symposium for Date of Conference: 26-29 Oct. 2017 Date Added to IEEE Xplore: 18 January 2018 ISBN Information: DOI: 10.1109/SIITME.2017.8259924 Publisher: IEEE Conference Location: Constanta, Romania, Romania, 2017, (TC_4_2017_DECIE)
23. Enescu, F.-M., Marinescu, A.-I., Chita, M.-A., Gaf-Deac, I.I., Marinescu, C.-N., *Smart clothes for monitoring temperature*, Enescu, F.-M., Marinescu, A.-I., Chita, M.-A., Gaf-Deac, I.I., Marinescu, C.-N. Smart clothes for monitoring temperature, heart rate, respiratory rate and humidity and state of confort, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, Albena, Bulgaria, 2017 Scopus, 2017, (TC_4_2017_DECIE)
24. M.A. Chita, P. Schiopu, *Control System to Improve Vehicle safety-tyre pressure monitoring*, International Journal of latest Trends in Engineering and Technoogy, Vol (9), Issue (1), pp. 234-240, DOI: <http://dx.doi.org/10.21172/1.91.36>, ISSN:2278-621X, Index Copernicus, CV 7.39/10, Global Impact Factor:0.685/1, Cosmos Impact factor 4.490/10, 2017, (TC_4_2017_DECIE)
25. Daniel Alexandru VISAN, Adrian Ioan LITA, *Conditioning and Transmission Module for Resistive Bridge Sensors*, 9th International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2017, pp. 1-4, Series Electronics, Computers and Artificial Intelligence, Vol. 8 - 2016, ISSN 1843-2115, ISBN: 978-1-5090-2046-1, DOI: 10.1109/ECAI.2017.8166480, "Valahia" University, Faculty of Electrical Engineering, Electronics and Information Technology, Targoviste, Romania, <http://ieeexplore.ieee.org/>, 29 June-01 July 2017, 2017, (TC_4_2017_DECIE)
26. Corina Savulescu, Zdzislaw Polkowski, *An approach for systems identification using artificial intelligence*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2017 9th International Conference on Date of Conference: 29 June-1 July 2017 Date Added to IEEE Xplore: 07 December 2017 ISBN Information: INSPEC Accession Number: 17398104 DOI: 10.1109/ECAI.2017.8166472 Publisher: IEEE Conference Location: Targoviste, Romania, 2017, (TC_11_2017_DECIE)
27. Sisman George Robert ; Nicu Bizon ; Mihai Oproescu, *Predictive maintenance of electronics systems based on analysis with thermographic camera and fuzzy graphs*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2017 9th International Conference on Date of Conference: 29 June-1 July 2017 Date Added to IEEE Xplore: 07 December 2017 ISBN Information: INSPEC Accession Number: 17398109 DOI: 10.1109/ECAI.2017.8166410 Publisher: IEEE Conference Location: Targoviste, Romania, 2017, (TC_5_2017_DECIE)
28. M. Jamma ; A. Bennassar ; M. Akherras ; C. Fahassa ; M. Barara ; M. Oproescu, *Self-tuning fuzzy PI dc-bus voltage controller and fuzzy switching sequences selection for direct power control of PWM AC/DC converter*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2017 9th International Conference on Date of Conference: 29 June-1 July 2017 Date Added to IEEE Xplore: 07 December 2017 ISBN Information: INSPEC Accession Number: 17415561 DOI: 10.1109/ECAI.2017.8166498 Publisher: IEEE Conference Location: Targoviste, Romania, 2017, (TC_5_2017_DECIE)
29. Alexandru Nitu, Cosmin Stirbu, Alexandru Ene, Florentina Magda Enescu, *Traffic management system*, Traffic management system, ECAI 2017, INTERNATIONAL CONFERENCE, 9th Edition Electronics, Computers and Artificial Intelligence, June 29– July 01, 2017, Targoviste, ROMANIA, DOI: 10.1109/ECAI.2017.8166438, 2017, (TC_10_2017_DECIE)
30. F. M. Enescu, V. M. Ionescu, C. N. Marinescu, C. Știrbu, *System for monitoring and controlling renewable energy sources*, 2017 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Targoviste, 2017, pp. 1-6. doi: 10.1109/ECAI.2017.8166443, 2017, (TC_14_2017_DECIE)
31. Daniel-Constantin Anghel, Nadia Belu, Laurentiu-Mihai Ionescu, Nicoleta Rachieru, *Study of iterations in the design process of a product for automotive industry*, MATEC Web Conf. Volume 112, 2017 21st Innovative Manufacturing Engineering & Energy International Conference – IManE&E 2017, Article Number 09011, Number of page(s) 6, Section: Industrial and Product Management, Quality and Evaluation DOI: <https://doi.org/10.1051/mateconf/201711209011> Published online: 03 July 2017, 2017, (TC_10_2017_DECIE)
32. Daniel C Anghel, Alexandru Ene, *The estimation with Artificial Neural Networks of some quality parameters for the surfaces processed by superfinishing*, 21st Innovative Manufacturing Engineering & Energy International Conference – IManE&E 2017, MATEC Web Conf., Volume 112, 2017, 2017, (TC_11_2017_DECIE)
33. Anghelescu Petre, Stefan Ioan Adrian, *Parking management and control system*, The 9th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2017, ISBN: 978-1-5090-6458-8, pp. 1 – 4, Targoviste, 29 June – 01 July 2017. DOI: 10.1109/ECAI.2017.8166395 Indexare: IEEE Xplore., 2017, (TC_12_2017_DECIE)

34. Valeriu Manuel Ionescu, Cosmin Stirbu, *Teaching Arduino programming at high school level*, University of Pitesti Scientific Bulletin, Series: Electronics and Computers Science, 2017: Vol. 17, Issue 2, pg. 37-44, pISSN: 2344 – 2158, eISSN: 2344 – 2166 (ISSN–L 2344 – 2158)., 2017, (TC_13_2017_DECIE)
35. V. M. Ionescu, D. Cazacu, F. M. Enescu, J. M. Lopez-Guede, *System using a hybrid application for virtual reality 3D drawing*, 2017 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Targoviste, 2017, pp. 1-6.doi: 10.1109/ECAI.2017.8166500, 2017, (TC_14_2017_DECIE)
36. V. M. Ionescu, *CPU and GPU gray scale image conversion on mobile platforms*, 2017 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Targoviste, 2017, pp. 1-6.doi: 10.1109/ECAI.2017.8166501, 2017, (TC_14_2017_DECIE)
37. Valeriu Manuel Ionescu, Dumitru Cazacu, *Performance improvement of the Comsol FEM analysis of 3D magnetostatic field problems on mobile computers*, International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), 2017/5/25, ISBN 978-1-5090-4489-4, Pg. 171-176, DOI: 10.1109/OPTIM.2017.7974966, 2017, (TC_14_2017_DECIE)

D. Lucrări (articole) publicate în 2017 în reviste și volume de conferințe cu referenți (neindexate)

D1. Articole în reviste

1. G.A. Iordachescu, D. Visan, *Simple Design Method for Microwave Band-Pass Filters*, University of Pitesti Scientific Bulletin, Vol. 17 No. 1BDI CopernicusISSN 1453-1119 link: http://bulletin.feccupit.ro/archive/view/2017_1_3.html, 2017, (TC_3_2017_DECIE)
2. G.A. Iordachescu, *Analog Free-Space LASER Communication System for Audio Transmissions*, University of Pitesti Scientific Bulletin, Vol. 17 No. 1BDI CopernicusISSN 1453-1119 link: http://bulletin.feccupit.ro/archive/view/2017_1_2.html, 2017, (TC_3_2017_DECIE)

E. Brevete de invenție obținute în întreaga activitate

1. Ionita Silviu, Mazare Alin, Ionescu Laurentiu, Anghelescu Petre, *Sistem cu radio-releu translator programabil pentru telecomenzi în IR*, Sistem cu radio-releu translator programabil pentru telecomenzi în IR (System with programmable translating radio-rely for IR remote control), Ionita Silviu, Mazare Alin, Ionescu Laurentiu, Anghelescu Petre Brevet de inv.RO 126719B1/30.10.2017; BOPI 10/2017., 2017, (TC_10_2017_DECIE)

F. Granturi / proiecte de cercetare în 2017

F1. Granturi / proiecte câștigate prin competiție internațională

1. *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*, , Cost-Efficient Data Collection for Smart Grid and Revenue Assurance (CERA-SG) (Optimizarea costurilor la colectarea datelor de la contoarele inteligente si metode de imbunatatire a profitului la transportul energiei electrice), ID: 77594, 2016-19, UEFISCDI PNIII: Cooperarea Europeană și Internațională – Subprogram 3.2 - Orizont 2020, Tip proiect: ERA-Net Smart Grids Plus; <https://www.era-learn.eu/network-information/networks/era-net-smartgridplus/era-net-smart-grids-plus-joint-call-for-proposals/cost-efficient-data-collection-for-smart-grid-and-revenue-assurance> , 2017, 0.00, (TC_4_2017_DECIE)

F2. Granturi / proiecte câștigate prin competiție națională

1. BIZON NICU, BIZON NICU, OPROESCU MIHAI, IONESCU LAURENTIU MIHAI, MAZARE ALIN GHEORGHITA, CAZACU DUMITRU, CONSTANTINESCU LUMINITA MIRELA, *Concept Development of an Energy Storage Unit Using High Temperature Superconducting Coil for Spacecraft Power Systems (SMESinSpace)*, Cod: CDI STAR, beneficiar: European Space Agency within STAR (Space Technology and Advanced Research), anul: 2017, domeniul stiintific: Technology & Science Support, valoare: 40887.00, 2017, (TC_20_2017_DECIE)
2. BIZON NICU, BIZON NICU, OPROESCU MIHAI, BELOIU ROBERT CRISTIAN, *Validarea experimentală a unui sistem de propulsie cu pile de combustibil cu hidrogen pentru un autovehiculor - Demonstrator de Mobilitate cu Hidrogen*, Cod: PN-III-P2-2.1-PED-2016-1223, beneficiar: UEFISCDI, anul: 2017, domeniul stiintific: Energie, mediu și schimbări climatice, valoare: 50000.00, 2017, (TC_9_2017_DECIE)

Sinteza rezultatelor activităților de cercetare la nivel de departament

Categoria / subcategoria activității de cercetare științifică	2017	Total
B. Cărți și capitole în cărți		
B.1 de specialitate, internaționale (autor)	5	5
B.2 de specialitate, naționale (autor)	3	3
B.3 de specialitate, internaționale (editor)	0	0
B.4 de specialitate, naționale (editor)	0	0
B.5 Manuale didactice, suporturi de curs	2	2
B.6 Îndrumare de laborator, culegere de pb.	0	0
C. Lucrări (articole) ISI / BDI		
C.1 în reviste cotate ISI	5	5
C.2 în volume indexate ISI Proceedings	9	9
C.3 în reviste /volumele unor manifestări științifice indexate BDI	37	37
D. Lucrări (articole) neindexate		
D.1 în reviste	2	2
D.2 în volumele manifestărilor științifice	0	0
E. Brevete de invenție	1	1
F. Granturi / proiecte de cercetare		
F.1 câștigate prin competiție internațională	1	1
F.2 câștigate prin competiție națională	2	2
F.3 cu mediul socio-economic	0	0

Data: 12.02.2018

Director de departament DECIE

Prof.dr.ing. SERBAN GHEORGHE

Semnătura