

1. Organizarea activităților de Cercetare, Dezvoltare și Inovare

În cadrul **Facultății de Electronică, Comunicații și Calculatoare (FECC)**, precum și a **Departamentului de Electronică, Calculatoare și Inginerie Electrică (DECIE)**, activitățile de cercetare, dezvoltare și inovare (CD&I) sunt susținute de implicarea nemijlocită a cadrelor didactice, doctoranzilor, masteranzilor, studenților din anii terminali ai ciclului de licență, precum și a partenerilor și colaboratorilor externi.

1.1. Direcții de cercetare

Domeniul Inginerie Electronică, Telecomunicații și Tehnologii Informaționale (IETTI)

- IETTI 1. Sisteme de putere distribuite alimentate din surse neconventionale de energie
- IETTI 2. Sisteme hardware și software pentru electronică
- IETTI 3. Sisteme și rețele de comunicații integrate
- IETTI 4. Sisteme de măsurare și procesare a semnalelor achiziționate
- IETTI 5. Modelarea, simularea, controlul și optimizarea sistemelor electronice

Domeniul Calculatoare și Tehnologia Informației (CTI)

- CTI 1. Tehnologii informaționale aplicate
- CTI 2. Ingineria sistemelor cu inteligență artificială
- CTI 3. Prelucrare paralelă și distribuită și securitatea informației
- CTI 4. Sisteme integrate hardware și software
- CTI 5. Rețele de calculatoare și protocoale de comunicații

Domeniul Inginerie Electrică (IE)

- IE1. Sisteme de conversie a energiei
- IE2. Modelarea, simularea, controlul și acționarea sistemelor electromecanice

1.2. Laboratoare / Centre de cercetare

Activitatea de cercetare științifică se derulează în laboratoare moderne aflate în structura administrativă a Departamentului de Electronică, Calculatoare și Inginerie Electrică (DECIE). Managementul activităților CD&I este condus operațional și strategic prin două centre de cercetare, recunoscute CNCSIS, ce activează în FECC:

- Centrul de Cercetare “Modelarea și Simularea Proceselor și Sistemelor” (MSPS) coordonat de *Prof. dr. ing. Gheorghe Șerban*.

- Centrul de Cercetare “Electromet”, coordonat de *Conf. dr. ing. Eugen Diaconescu*.

Două laboratoare de cercetare ale DECIE sunt integrate în Centrul Regional de Cercetare – Dezvoltare pentru materiale, procese și produse inovative destinate industriei de AUTOMobile:

- Laborator Testare Baterii
- Laborator Automobile Inteligente.

1.3. Proiecte de cercetare castigate în 2016 în competiții PNCDI III:

1) Sistem de achiziție, monitorizare, analiză și recunoaștere a vibrațiilor pentru protecția infrastructurilor critice; PNCDI III 2.1;

2) Cost-Efficient Data Collection for Smart Grid and Revenue Assurance, PNCDI III 3.2;

3) Validarea experimentală a unui sistem de propulsie cu pile de combustibil cu hidrogen pentru un autovehicul ușor - Demonstrator de Mobilitate cu Hidrogen; PNCDI III 2.1.

1.4. Colaborări relevante cu mediul socio-economic:

1.4.1. Proiecte având ca beneficiar S.C. DPR Draexlmaier Procese de Productie Romania SRL

- Test of speaker system regarding feasibility, quality and cost. Theoretical evaluation & documentation of concept. – Contract nr.4/24.01.2014

- Recognition and classification of surfaces and structures. Evaluation and creation of specific algorithms in order to be integrated into industrial image processing systems - Contract nr.5/24.01.2014

1.4.2. Proiecte de cercetare in colaborare cu S.C. Miratelecom, Bucuresti, premiate in Gala ANIS 2017; <https://www.agerpres.ro/ots/2016/02/03/mira-technologies-group-premiera-in-antidetecia-explozibililor-12-07-57>.

1.5. Publicatii stiintifice

Nume revistă / buletin	Facultatea / departamentul coordonator	Clasificare CNCSIS / CNCS	Nr. apariții / 2016	Formă apariție tipărit / electronic
Scientific Bulletin of the University of Pitesti, Series: "Electronics and Computer Science", ISSN-1453-1119, http://www.scipio.ro/web/303140	FECC / DECIE	B+ / Copernicus indexed	2	tipărit / electronic
Journal of Electrical Engineering, Electronics, Control and Computer Science (JEECCS) ISSN 2457-7812 http://jeeccs.net/index.php/journal	FECC (consortiu de 4 universitati)	Google Scholar indexed Copernicus indexed	4	tipărit / electronic

1.5. Domenii și colective de cercetare

Domeniul	Direcții/Teme de cercetare (T.C.)	Colectiv de cadre didactice
Inginerie Electronică, Telecomunicații și Tehnologii Informaționale	Sisteme de putere distribuite alimentate din surse neconventionale de energie	Prof.dr.ing. Lita Ioan Prof.dr.ing. Bizon Nicu
	Sisteme hardware și software pentru electronică	Conf. dr.ing. Mazare Alin Conf.dr.ing. Oproescu Mihai
	Sisteme și rețele de comunicatii integrate	Conf. dr. ing. Visan Daniel
	Sisteme de măsurare si procesare a semnalelor achizitionate	Conf.dr.ing. Chita Monica Sl.dr. ing. Raducu Marian
	Modelarea, simularea, controlul și optimizarea sistemelor electronice	Sl.dr. ing. Bostan Ionel Sl. drd. ing. Cioc Bogdan Sl. dr. ing. Teodorescu Mihaela As.dr.ing. Iordăchescu Adrian
Calculatoare și Tehnologia Informației	Tehnologii informaționale aplicate	Prof.dr.ing. Serban Gheorghe
	Ingineria sistemelor cu inteligenta artificiala	Prof.dr.ing. Ionita Silviu
	Prelucrare paralela si distribuita si securitatea informatiei	Prof.dr.ing. Ene Alexandru Conf.dr.ing. Anghelescu Petre
	Sisteme integrate hardware si software	Conf.dr.ing. Ionescu Laurentiu S.l.dr.ing. Iana Gabriel S.l.dr.ing. Ionescu Valeriu
	Rețele de calculatoare si protocoale de comunicații	S.l.dr.ing. Stirbu Cosmin S.l.dr. ing. Savulescu Corina S.l.dr.ing. Enescu Florentina S.l. dr. ing. Birleanu Florin
Inginerie Electrică	Sisteme de conversie a energiei	Conf.dr.ing. Diaconescu Eugen Conf.dr.ing. Cazacu Dumitru Conf.dr.ing. Beloiu Robert
	Modelarea, simularea, controlul și acționarea sistemelor electromecanice	S.l.dr.ing. Constantinescu Luminita S.l.dr.ing. Iorgulescu Mariana S.l.dr.ing. Stoica Constantin S.l.dr.ing. Alexandru Magda

2. Raportarea activității de cercetare pe anul calendaristic 2016

B. Cărți și capitole în cărți publicate în perioada

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

1. Adrian-Viorel Diaconu, Valeriu Manuel Ionescu, Jose Manuel Lopez-Guede, *Security Analysis of a New Bit-Level Permutation Image Encryption Algorithm*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 595-606, 2016, (TC_10_2016_DECIE)
2. Valeriu Manuel Ionescu, Jose Manuel Lopez-Guede, *Comparing Google Cloud and Microsoft Azure platforms for undergraduate laboratory use*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 795-802, 2016, (TC_10_2016_DECIE)
3. Valeriu Manuel Ionescu, Alexandru-Catalin Petrini, *Virtualization laboratory for Computer Networks at undergraduate level*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 776-784, 2016, (TC_10_2016_DECIE)
4. Alexandru-Catalin Petrini, Valeriu Manuel Ionescu, *Study of Huffman coding performance in Linux and Windows 10 IoT for different frameworks*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 766-775, 2016, (TC_10_2016_DECIE)
5. Jose Manuel Lopez-Guede, Erol Kurt, Necmi Altin, Manuel Graña, Valeriu Ionescu, *Erasmus Innovative European Studies*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 758-765, 2016, (TC_10_2016_DECIE)
6. Valeriu Manuel Ionescu, Cosmin Știrbu, Florentina Magda Enescu, *Using the Phone's Light Sensor to Detect the TV Video Stream*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5, ISBN 978-3-319-47364-2 (ebook) Pages 785-794, 2016, (TC_9_2016_DECIE)
7. Florentina-Magda Enescu, Cosmin Știrbu, Valeriu Ionescu, *SCADA network system for the monitoring and control of an electrical installation supplied by a hydro-generator*, International Joint Conference SOCO'16-CISIS'16-ICEUTE'16: San Sebastián, Spain edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, Héctor Quintián, Emilio Corchado. Springer: ISBN 978-3-319-47363-5 (Book) ISBN 978-3-319-47364-2 (eBook) SCADA network system for the monitoring and control of an electrical installation supplied by a hydro-generator, SOCO2016 (11th International Conference on Soft Computing Models in Industrial and Environmental Applications, SAN SEBASTIAN, SPAIN, 19th – 21st October 2016), pp. 156-166, (BDI SPRINGER), 2016, 2016, (TC_9_2016_DECIE, TC_5_2016_DECIE)
8. Anghel Petre, *Cryptographic Techniques Based on Bio-Inspired Systems*, Handbook of Research on Advanced Hybrid Intelligent Techniques and Applications, IGI Global, ISBN : 9781466694743, doi:10.4018/978-1-4666-9474-3.ch003, pp. 59-77, 2016, 2016, (TC_8_2016_DECIE, TC_7_2016_DECIE)
9. Luminița Știrbu, Cosmin Știrbu, Nadia Belu, Viorel Nicolae, *Key characteristics of the World Class Manufacturing concept in the production of chassis for buses industry*, CONAT 2016 International Congress of Automotive and Transport Engineering edited by Anghel Chiru, Nicolae Ispas. Springer: ISBN: 978-3-319-45446-7 (Book) ISBN: 978-3-319-45447-4 (eBook) CONAT2016 (International CONGRESS of Automotive and Transport Engineering The 2016 International SIAR Congress, Brașov, Romania, 26 – 29 October 2016), pp. 585-591, (ISI WEB), 2016, WOS:000390821400064, 2016, (TC_9_2016_DECIE)
10. Jose Manuel Lopez-Guede, Jose Antonio Ramos-Hernanz, Manuel Grana, Valeriu Manuel Ionescu, *ANN based model of PV modules*, Springer Series: Advances in Intelligent and Soft Computing, Chapter of book: International Joint Conference SOCO'16-CISIS'16-ICEUTE'16, edited by Manuel Graña, José Manuel

B2. 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 și circuite pasive. Intrebări și raspunsuri*, ISBN: 978-606-25-0226-3, 143pg., Ed. Matrix Rom, București, 2016, 2016, (TC_3_2016_DECIE)
3. Alexandru Ene, *Programarea calculatoarelor în limbajul C. Note de curs*, Editura Tip Naste Pitești, ISBN 978-973-1921-04-4, 2016, 2016, (TC_6_2016_DECIE)
4. Enescu Fl., *Informatica aplicata*, ISBN-978-606-560-491-9, Editura Universității Pitești, 2016, pag. 467, 2016, 2016, (TC_6_2016_DECIE)
5. Florin-Marian Birleanu, *Limbaje formale, automate și compilatoare. Teorie și aplicații*, 210 pagini, ISBN 978-606-560-480-3, Editura Universității din Pitești, 2016, (TC_6_2016_DECIE)

B5. Manuale didactice, suport de curs

1. Laurentiu Ionescu, *Proiectarea de aplicații în timp real*, Note de curs, Universitatea din Pitești, 2016, 2016
2. Laurentiu Ionescu, *Sisteme de control în timp real*, Note de curs, Universitatea din Pitești, 2016, 2016
3. Mihai Oproescu, *Sisteme de intrare - iesire. Note de curs*, , 2016
4. Alin Mazare, *Circuite integrate digitale - Note de curs*, Universitatea din Pitești, 2016
5. Alin Mazare, *Construcția și tehnologia aparaturii electronice - Note de curs*, Universitatea din Pitești, 2016
6. Teodorescu Rodica-Mihaela, *Bazele utilizării aplicațiilor pentru prezentări electronice. Aplicația Impress din LibreOffice*, Universitatea din Pitești, 2016
7. Teodorescu Rodica-Mihaela, *Bazele utilizării aplicațiilor de calcul tabelar. Aplicația Calc din LibreOffice*, Universitatea din Pitești, 2016
8. Gheorghe Serban, *Arhitectura microprocesoarelor*, Suport de curs, Universitatea din Pitești, 2016, 2016
9. Gheorghe Serban, *Microprocesoare și limbaje de asamblare*, Suport de curs, Universitatea din Pitești, 2016, 2016
10. Gheorghe Serban, *Structura și organizarea calculatoarelor*, Suport de curs, Universitatea din Pitești, 2016, 2016
11. Gheorghe Serban, *Proiectarea cu microprocesoare*, Suport de curs, Universitatea din Pitești, 2016, 2016
12. Știrbu Cosmin, *Sisteme distribuite. Note de curs*, Note de curs, 2016, Calculatoare anul IV. - format electronic, 2016
13. Știrbu Cosmin, *Programarea obiect-orientată. Note de curs*, Note de curs, EA,RSTc anul II - format electronic, 2016
14. Angheliescu Petre, *Criptografie și securitate informațională*, Suport de curs., 2016
15. Chita, M.A., *Senzori și actuatoare - Note de curs*, , 2016
16. Gheorghe Serban, *Microprocesoare și microcontrolere*, Suport de curs, Universitatea din Pitești, 2016, 2016
17. Gheorghe Serban, *Calculatoare numerice*, Suport de curs, Universitatea din Pitești, 2016, 2016
18. Enescu Fl., *Prelucrare grafică asistată de calculator. Note de curs*, , 2016
19. Marian Raducu, *Convertoare fotoelectrice*, Note de curs, 2016
20. Ioan Lita, *Automatizări în electronica și telecomunicații. Note de curs.*, Note de curs, 2016
21. Cioc Ion Bogdan, *Comunicații optice - Note de curs*, Note de curs, 2016
22. Cioc Ion Bogdan, *Electronica și bazele sistemelor automate - Note de curs*, Note de curs, 2016
23. Savulescu Corina, *Teoria sistemelor - Note de curs*, , 2016
24. Chita, M.A., *Senzori și actuatori utilizați în procese industriale - Note de curs*, , 2016
25. Chita, M.A., *Senzori inteligenți - Note de curs*, , 2016
26. Daniel Alexandru Visan, *Circuite de microunde - Note de curs*, Note de curs, 2016

B6. Îndrumare de laborator, culegere de probleme

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

2. Robert Cristian Beloiu, *Lucrari practice de Robotica Industrială*, Ed. Upit, 2016, ISBN 978-606-560-483-4, 163 pag. www.upit.ro, 2016
3. Gheorghe Serban, Laurentiu Ionescu, *Calculatoare numerice – Indrumar de laborator*, Indrumar de laborator, Universitatea din Pitesti, 2016, 2016
4. Gheorghe Serban, Laurentiu Ionescu, *Structura si organizarea calculatoarelor – Indrumar de laborator*, Indrumar de laborator, Universitatea din Pitesti, 2016, 2016
5. Anghelescu Petre, *Sisteme de prelucrare grafica*, Indrumar de laborator., 2016
6. Știrbu Cosmin, *Sisteme distribuite. Lucrări de laborator*, Sisteme distribuite. Lucrări de laborator. CIV - format electronic, 2016
7. Alexandru Ene, *Programarea obiect-orientată. Lucrări de laborator*, Programarea obiect-orientată. Lucrări de laborator. - format electronic, 2016
8. Știrbu Cosmin, Oproescu Mihai, *Sisteme de intrare - iesire. Lucrări de laborator*, Sisteme de intrare - iesire. Lucrări de laborator, CIII - format electronic, 2016
9. Știrbu Cosmin, Ene Alexandru, *Rețele neuronale. Lucrări de laborator*, Rețele neuronale. Lucrări de laborator. CIV - format electronic, 2016
10. Enescu Fl., *Prelucrare grafica asistata de calculator. Lucrari de laborator*, , 2016
11. Valeriu Manuel Ionescu, *Sisteme de operare. Note de curs*, Note de curs, 2016
12. Valeriu Manuel Ionescu, *Sisteme de operare. Aplicatii de laborator*, Note de curs, 2016
13. Savulescu Corina, *Teoria sistemelor - Aplicatii*, , 2016
14. Enescu Fl, *Prelucrare grafica asistata de calculator - Indrumar laborator*, , 2016

C. Lucrări (articole) ISI / BDI publicate în perioada 2016 - 2016

C1. 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: $(25+20 \times 1.004)/5=9.016$, 2016, (TC_7_2016_DECIE)

C2. Articole în volume indexate ISI Proceedings

1. Adrian-Viorel Diaconu, Valeriu Ionescu, Gabriel Iana, Jose Manuel Lopez-Guede, *A new bit-level permutation image encryption algorithm*, Communications (COMM), 2016 International Conference, Pages: 411-416, Published: 9-10 June 2016, Bucharest, ISBN:978-1-4673-8197-0,DOI: 10.1109/ICComm.2016.7528310 Web of Science Categories:Engineering, Electrical & Electronic; Telecommunications WOS:000383221900085, 2016, (TC_9_2016_DECIE)

2. Dumitru Cazacu, Valeriu Ionescu, Silviu Ionita, Elena Virjoghe, *On The Multishell Cylindrical Magnetostatic Shields: Analytical And Numerical Approach*, ECAI 2016, 30 June-02 July 2016, Ploiesti, Romania, ISBN 978-1-5090-2047-8, MW-6, Indexare: ISI WoK, 2016, (TC_10_2016_DECIE)
3. Valeriu Manuel Ionescu, *Exploiting the ambient light sensor to track user environment information*, 15th RoEduNet Conference: Networking in Education and Research, Bucharest, Romania, September 7 – 9, 2016, ISSN 2068-1038, pg. 125-130, Indexare: ISI WoK, 2016, (TC_10_2016_DECIE)
4. V.Ionescu, D.Cazacu, *Analysis of Comsol Multiphysics Parallel Performance on a multi- core system*, The 8th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2016, 30 june – 2 july, PloiestiRomania,2016, 2016, (TC_12_2016_DECIE)
5. Valeriu Manuel Ionescu, *Using cross platform development libraries. Telerik Mobile*, 15th RoEduNet Conference: Networking in Education and Research, Bucharest, Romania, September 7 – 9, 2016, ISSN 2068-1038, pg. 88-93, Indexare: ISI WoK, 2016, (TC_10_2016_DECIE)
6. Iorgulescu, Mariana, *Study of single phase induction motor with aluminium versus copper stator winding*, 2016 International Conference on Applied and Theoretical Electricity (ICATE)Year: 2016,Pages: 1 - 5, DOI: 10.1109/ICATE.2016.7754643,IEEE Conference Publications, 2016, (TC_11_2016_DECIE)
7. D.Cazacu, V.Ionescu, S.Ionita,E.Virjoghe, *Theoretical and numerical aspects concerning Multishell magnetostatic shields*, The 8th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2016, MW-6 paper, 30 june – 2 july, PloiestiRomania,2016, 2016, (TC_12_2016_DECIE)
8. Nitul Dutta, Zdzislaw Polkowski, Corina Savulescu, *An Approach to Signaling Cost Reduction in Proxy MIPv6 for Mobility Management*, The fifth edition of International Conference on Advances in Computing, Communications and Informatics ICACCI-2016 , Jaipur, India, 2016, (TC_8_2016_DECIE, TC_13_2016_DECIE)
9. Adrian Ioan Lita, Laurentiu Mihai Ionescu, Alin Gheorghita Mazare, Gheorghe Serban, Ioan Lita, *Real time system for instrumental sound extraction and recognition*, Electronics Technology (ISSE), 2016 39th International Spring Seminar on, pp. 456-461, Electronic ISSN: 2161-2064, 2016, 2016, (TC_7_2016_DECIE, TC_9_2016_DECIE)
10. L. M. Ionescu, A. Gh. Mazare, I. Lita, N. Belu, A-I. Lita, *Real time system for extraction and playback of an instrumental sound*, 2016 IEEE 22nd International Symposium for Design and Technology in Electronic Packaging (SIITME), Oradea, Romania, 2016, pp. 86-89. doi: 10.1109/SIITME.2016.7777250. (BDI: IEEE Xplore), 2016, (TC_9_2016_DECIE)
11. Ioan LITA, Daniel Alexandru VISAN, Ion Bogdan CIOC, Alin Gheorghita MAZARE, Rodica Mihaela TEODORESCU, *Indoor Environmental Parameters Monitoring for Building Automation Systems*, 8th International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2016, Series Electronics, Computers and Artificial Intelligence, Vol. 8 - 2016, ISSN 1843-2115, ISBN: 978-1-5090-2046-1, Universitatea Petrol-Gaze din Ploiesti , Ploiesti, <http://ieeexplore.ieee.org/>, Romania, 30 June-02 July 2016, 2016, (TC_2_2016_DECIE)
12. Visan, Daniel Alexandru; Ionescu, Laurentiu Mihai; Lita, Adrian Ioan, Alin Mazare, *Remote Communication Interface for Sound and Vibration Sensors*, 2016 IEEE 22nd International Symposium for Design and Technology in Electronic Packaging (SIITME), Oradea, Romania, 2016, pp. 90-93. doi: 10.1109/SIITME.2016.7777250. (BDI: IEEE Xplore), 2016, (TC_9_2016_DECIE)
13. Daniel Alexandru Visan, Adrian Ioan Lita, Stefan Oprea, Ion Bogdan Cioc, *Reconfigurable signal generator and simulator for testing the digital transmission circuits*, 39 International Spring Seminar on Electronics Technology - ISSE 2016, "Printed electronics and smart textiles",Electronic ISSN: 2161-2064, Print ISBN: 978-80-261-0618-0, pp. 353-356, Digital Object Identifier:10.1109/ISSE.2016.7563219, <http://ieeexplore.ieee.org/>, University of West Bohemia, Department of Technologies andMeasurement, Faculty of Electrical Engineering, Pilsen, Czech Republic, May 18-22, 2016, 2016, (TC_2_2016_DECIE)
14. Ion Bogdan Cioc, Stefan Oprea, Daniel Alexandru Visan, Ioan Lita, Adrian Ioan Lita, *Remote measurements in educational laboratories using LabVIEW and DAQ cards*, 39 International Spring Seminar on Electronics Technology - ISSE 2016, "Printed electronics and smart textiles",Electronic ISSN: 2161-2064, Print ISBN: 978-80-261-0618-0, pp. 486 - 489, Digital Object Identifier:10.1109/ISSE.2016.7563242, <http://ieeexplore.ieee.org/>, University of West Bohemia, Department of Technologies andMeasurement, Faculty of Electrical Engineering, Pilsen, Czech Republic, May 18-22, 2016, 2016, (TC_3_2016_DECIE, TC_4_2016_DECIE)
15. 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)

16. 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)

17. 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)

18. 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)

19. 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)

20. V. Nicolae, L. M. Ionescu , N. Belu, L. E. Ştirbu, *Improvement of the 8D Analysis Through a System Based on the "Internet of Things" Concept Applied in Automotive Industry*, CONAT 2016 International Congress of Automotive and Transport Engineering, pp 635-642, 2016, doi:10.1007/978-3-319-45447-4_70, Editor Springer International Publishing. (BDI: Springerlink), 2016, (TC_6_2016_DECIE, TC_9_2016_DECIE)

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

C3. 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*, University 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 PERFORMACE 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. Bogdan-Adrian Enache, Florin-Marian Birleanu, Marin Radut, *Modeling a PV panel using the manufacturer data and a hybrid adaptive method*, Proceedings of "The 8th INTERNATIONAL CONFERENCE on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE (ECAI 2016)", June 30 - July 2, Ploiesti, Romania, vol. 8, no. 2 (BDI: IEEE Xplore), 2016, (TC_2_2016_DECIE)
9. Badre Bossoufi, Hala Alami Aroussi, Silviu Ionita, Luminita-Mirela Constantinescu, *Speed Control for PMSM Drive System Using Predictive Control*, 8th INTERNATIONAL CONFERENCE on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE ECAI 2016, June 30– July 02, 2016, ECAI-2016 VOLUMES, Vol. 8 – 2016 ISSN – 1843 – 2115, Compliant PDF Files, CFP1627U-ART, ISBN 978-1-5090-2047-8, DVD, CFP1627U-DVD, ISBN 978-1-5090-2044-7, Print, CFP1627U-PRT, ISBN 978-1-5090-2046-1, IEEE Xplore (SCOPUS), 2016, (TC_11_2016_DECIE)
10. Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, *Evaluation of the performance of new Extremum Seeking Control algorithm to locate accurately the peaks on multimodal functions*, ECAI 2016 - International Conference – 8th Edition Electronics, Computers and Artificial Intelligence, 30 June -02 July, 2016, Ploiesti, ROMÂNIA [IEEEExplore] [Scopus], 2016, (TC_2_2016_DECIE, TC_5_2016_DECIE)
11. Mariana Iorgulescu, *Energy Efficiency Management for Metalworking Manufactured*, Journal of Electrical Engineering, Electronics, Control and Computer Science, vol 2, nr.4 (2016), pp 15-20, 2016, (TC_11_2016_DECIE, TC_12_2016_DECIE)
12. P. Thounthong, S. Sikkabut, P. Mungporn, C. Ekkaravarodome, N Bizon, P. Tricoli, B. Nahid-Mobarakeh, S. Pierfederici, B. Davat, *Differential flatness based speed/torque control with state-observers of permanent magnet synchronous motor drives*, IEEE Industry Applications Society Annual Meeting, 2016 <http://ieeexplore.ieee.org/document/7731883/> DOI: 10.1109/IAS.2016.7731883, 2016, (TC_5_2016_DECIE, TC_12_2016_DECIE)
13. Badre Bossoufi, Silviu Ionita, Luminita Constantinescu, Madiha El Ghamrasni, *Backstepping Control of DFIG-Generators for Wind Turbines Variable-Speed*, International Symposium on Fundamentals of Electrical Engineering 2016 University POLITEHNICA of Bucharest, Romania June 30-July 2, 2016, IEEE Xplore , Cat. No.:CFP1693Y-ART, ISBN: 978-1-4673-9575-5, 2016, (TC_12_2016_DECIE)
14. Mustapha Jamma, Mohamed Barara, Mohammed Akherraz, Bogdan-Adrian Enache, *Voltage oriented control of three-phase PWM rectifier using space vector modulation and input output feedback linearization theory*, 8th Edition Electronics, Computers and Artificial Intelligence - ECAI 2016, At Ploiesti, Romania, Volume 1, no.1., 2016, (TC_12_2016_DECIE)
15. Nicolae Diga, Constantin Ghita, Bogdan-Adrian Enache, Silvia-Maria Diga, *Considerations on the Command and Analysis of the Low Speed Permanent Magnet Synchronous Machines Operating*, The International Conference on Applied and Theoretical Electricity - ICATE 2016, At Craiova, Romania, 2016, (TC_12_2016_DECIE)
16. Stoica C, D. Cazacu, I. Daniel, *Numerical And Experimental Aspects Concerning The Static and Dynamic Regime Of A Linear Actuator* Journal of Electrical Engineering, Electronics, Control and Computer Science JEECCS, Numerical And Experimental Aspects Concerning The Static and Dynamic Reg, , 2016, (TC_12_2016_DECIE)
17. Andrei I. Bogdan, Nicu Bizon, *Performance evaluation of five PWM modulation strategies applied to spread the power spectrum of the power converters*, ECAI 2016 - International Conference – 8th Edition Electronics, Computers and Artificial Intelligence, 30 June -02 July, 2016, Ploiesti, ROMÂNIA [IEEEExplore] [Scopus], 2016, (TC_2_2013_DECIE, TC_5_2013_DECIE)
18. Rodica Mihaela TEODORESCU, *Synthesis-based design of RC one-ports, Foster and Cauer Syntheses*, JEECCS – Journal of Electrical Engineering, Electronics, Control and Computer Science, Volume 2, Issue 3, Number 1, pages 47-52, ISSN-L 2457-7812, <http://jeeccs.net/index.php/journal/article/view/30/19> , 2016, (TC_2_2016_DECIE)
19. Daniel Alexandru Visan, Mariana Jurian, Ion Bogdan Cioc, Laurentiu Mihai Ionescu, Adrian Ioan Lita, *Delta Encoder for Fiber Optic Based Data Transmission of Signals from Sensors*, 8th International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2016, Vol. 8 No.2/2016, pag. 1-4, June 30-July 02, 2016, Ploiești, Romania, ISSN – 1843 – 2115, DOI: 10.1109/ECAI.2016.7861121 <http://ieeexplore.ieee.org/document/7861121/?reload=true>, IEEE Conference Publications, 2016, (TC_3_2016_DECIE, TC_2_2016_DECIE)
20. Bostan Ionel, *Comparative Study Between BJT and MOSFET Implementation of Current-Source Loads Voltage Amplifiers*, Journal of Electrical Engineering Electronics, Control and Computer Science, vol. 2, No4, pp 21-24 , 2016 <http://jeeccs.net/index.php/journal/article/view/60>, 2016, (TC_2_2016_DECIE)
21. 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.

https://scholar.google.ro/citations?hl=en&user=FbHEejkAAAAJ&view_op=list_works&sortby=pubdate[Google Scholar], 2016, (TC_2_2016_DECIE, TC_9_2016_DECIE)

22. 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[IEEEExplore] [Scopus], 2016, (TC_2_2016_DECIE, TC_6_2016_DECIE)

23. 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 [IEEEExplore] [Scopus], 2016, (TC_2_2016_DECIE, TC_5_2016_DECIE)

24. 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)

25. 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)

26. 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)

27. 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)

28. Bizon Nicu, Oproescu Mihai, Şişman George Robert, *FAILURE RISK ANALYSIS USING DATA FROM A POWER STATION REMOTE MONITORED*, International Journals on Technical and Physical Problems of Engineering (IJTPE, ISSN 2077-3528), IJTPE - Issue 28, Volume 8, Number 3, September 2016 (ISSN 0016-0503-0913), 42-51, 7-IJTPE-Issue28-Vol8-No3-Sep2016-pp42-51.pdf[Norwegian Social Science Data Services (NSD), www.nsd.no/english] <https://scholar.google.com/citations?user=gfWxEhEAAAAJ&hl=en> [Google Scholar], 2016, (TC_3_2016_DECIE, TC_4_2016_DECIE)

29. 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, ISSN – 1843 – 2115, Vol. 8 No.2/2016, June 30-July 02, 2016, Ploieşti, Romania, DOI: 10.1109/ECAI.2016.7861083, <http://ieeexplore.ieee.org/document/7861083/>, IEEE Conference Publications, 2016, (TC_2_2016_DECIE)

30. Rodica Mihaela TEODORESCU, Ion Bogdan CIOC, Bogdan Andrei VOCHIN, Adrian Ioan LITA, *LabVIEW Application Used for Remote Control of a Mobile Robot with Xbee Communication*, 8 International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2016, ISSN – 1843 – 2115, Vol. 8 No.2/2016, June 30-July 02, 2016, Ploieşti, Romania, DOI: 10.1109/ECAI.2016.7861069(<https://doi.org/10.1109/ECAI.2016.7861069>) <http://ieeexplore.ieee.org/document/7861069>(<http://ieeexplore.ieee.org/document/7861069/>), 2016, (TC_4_2016_DECIE)

31. Şişman George Robert, Bizon Nicu, Oproescu Mihai, *On the remote diagnostic of the power source used in telecommunications*, Proceedings of Int. Conf. Technologies and Power Electronics (TPE16), Sept 2016, Bilbao, Spain (www.iotpe.com) ISSN 2309-0545 (CD-ROM : ISSN 2309-0553), 26-31., 2016, (TC_3_2016_DECIE, TC_9_2016_DECIE)

32. L. Graini, K. Saouchi, G. A. Iordachescu, *Optical similariton generation in photonic crystal fibers*, ECAI 2016, International Conference of Electronics, Computers and Artificial Intelligence – 8th Edition, Ploiesti, nume BDI: IEEEExplore Digital LibraryDOI: 10.1109/ECAI.2016.7861192 , 2016, (TC_3_2016_DECIE)

33. Daniel Alexandru Visan, Laurentiu Mihai Ionescu, Adrian Ioan Lita, *Remote Communication Interface for Sound and Vibration Sensors*, 2016 IEEE 22th International Symposium for Design and Technology in Electronic Packages - SIITME 2016, pp 90 - 93, ISBN: 978-1-5090-4444-3, IEEE Catalog Number: CFP1607I-USB, Digital Object Identifier: 10.1109/SIITME.2016.7777251, <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_3_2016_DECIE, TC_4_2016_DECIE)

34. Adrian Ioan Lita; Laurentiu Mihai Ionescu; Alin Gheorghita Mazare; Gheorghe Serban; Ioan Lita, *Real time system for instrumental sound extraction and recognition*, 2016 39th International Spring Seminar on Electronics Technology (ISSE)Pages: 456 - 461, DOI: 10.1109/ISSE.2016.7563240, IEEEExplore, 2016, (TC_6_2016_DECIE)

35. Laurentiu Mihai Ionescu; Alin Gheorghita Mazare; Ioan Lita; Nadia Belu; Adrian-Ioan 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), Year: 2016, Pages: 86 - 89, DOI: 10.1109/SIITME.2016.7777250, 2016, (TC_3_2016_DECIE)

36. Bizon Nicu, Oproescu Mihai, Şişman George Robert, *Predictive Maintenance Prioritization using Fuzzy Graphs*, Proceedings of Int. conf. Technologies and Power Electronics (TPE16), Sept 2016, Bilbao, Spain (www.iotpe.com) ISSN 2309-0545 (CD-ROM: ISSN 2309-0553), 189-193., 2016, (TC_4_2016_DECIE, TC_7_2016_DECIE)

37. Mirel Stanica, Man Ion, Mihai Opoescu, *The analysis of open loop and the working mode stepper motor at different frequencies*, ECAI 2016 - International Conference – 8th Edition Electronics, Computers and Artificial Intelligence, 30 June -02 July, 2016, Ploiesti, ROMÂNIA [IEEEExplore] [Scopus], 2016, (TC_5_2016_DECIE, TC_4_2016_DECIE)

38. Chita, M.A., *Système de mesure de déplacement linéair à capteur inductif de type ACCEL IW12*, The 40 nd Annual Congress of the American Romanian Academy of Arts and Sciences(ARA), Montréal, Canada, July 28-July 31, 2016, <http://www.americanromanianacademy.org/39-comming-soon-c1cp3>, <http://dx.doi.org/10.14510/40.ARA2016.4019>, ISBN 978-1-935924-19-7, 2016, (TC_4_2016_DECIE)

39. Chita, M.A., *Measurement System of the Relative Humidity with Capacitive Sensor by CORECI 5000*, The 40 nd Annual Congress of the American Romanian Academy of Arts and Sciences (ARA), Montréal, Canada, July 28-July 31, 2016, <http://www.americanromanianacademy.org/39-comming-soon-c1cp3>, 2016; <http://dx.doi.org/10.14510/40.ARA2016.4019>, ISBN 978-1-935924-19-7, 2016, (TC_4_2016_DECIE)

40. Chita, M.A., ., *Some Aspects of Temperature Measurement with DS 180 Sensor*, The 27h DAAAM International Symposium Intelligent Manufacturing & Automation: Focus on Sustainability, Vienna, Austria, 26st-29th October, 2016, pp. 0167-0168, EBSCO database., 2016, (TC_4_2016_DECIE)

41. Carmen-Elena Petrea, Cosmin Ştirbu, Florentina Enescu, *Software application for database management in a transport company*, University of Pitesti Scientific Bulletin (Series: Electronics and Computers Science, Pitesti, 2016), Vol. 16, Issue 2, pg. 1-6, (BDI Copernicus), 2016, 2016, (TC_6_2016_DECIE)

42. Alexandru Ene, Cosmin Ştirbu, *A Java application for the failure rate prediction using feed forward neural networks*, ECAI 2016 (International Conference – 8th Edition, Electronics, Computers and, Artificial Intelligence, Ploiesti, ROMÂNIA, 30 June -02 July 2016), Volume 8, P159-P162, (BDI IEEE Xplore), 2016, 2016, (TC_6_2016_DECIE, TC_7_2016_DECIE)

43. Arnold Konrad Siposs, Cosmin Ştirbu, Florentina Enescu, *Software application for exploring a virtual solar system*, University of Pitesti Scientific Bulletin (Series: Electronics and Computers Science, Pitesti, 2016), Vol. 16, Issue 1, pg. 25-28, (BDI Copernicus), 2016, 2016, (TC_6_2016_DECIE)

44. Elena-Georgiana Deaconu, Cosmin Ştirbu, Florentina Enescu, *Software application for managing students admission to the university*, University of Pitesti Scientific Bulletin (Series: Electronics and Computers Science, Pitesti, 2016), Vol. 16, Issue 1, pg. 7-10, (BDI Copernicus), 2016, 2016, (TC_6_2016_DECIE)

45. Preoteasa Mihai Emilian, Anghelescu Petre, *Informatic system used in telephone franchises SIVET*, Scientific Bulletin, Series: Electronics and Computers Science, Revista categoria B+ CNCS, Vol. 16, Issue 1, ISSN: 1453–1119, pg. 11-16, 2016., 2016, (TC_6_2016_DECIE)

46. Alin Oproiu, Alexandru Ene, *Real time GPS tracking application for windows environment*, University of Pitesti Scientific Bulletin (Series: Electronics and Computers Science, Pitesti, 2016), Vol. 16, Issue 1, pg. 29-32, (BDI Copernicus), 2016, 2016, (TC_6_2016_DECIE)

47. Zdzislaw Polkowski, Corina Savulescu, Nitul Dutta, *Mobile Solutions in Small and Medium Enterprises*, ECAI 2016, Vol.7, No.3/2016, ISSN- 1843 – 2115, 2016, (TC_6_2016_DECIE)

48. N Belu, LM Ionescu, DC Anghel, N Rachieru, *Improvement of Manufacturing Process by Reducing of the Failures Ratio through Genetic Algorithm*, Applied Mechanics and Materials, Vol. 834, Pp. 61-66, 2016, 2016, (TC_6_2016_DECIE, TC_7_2016_DECIE)

49. Anghelescu Petre, Vlad Gabriel Iliescu, Constantin Mara, Mihai Bogdan Gavriiloaia, *Automatic Thresholding Method for Edge Detection Algorithms*, The 8th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2016, Vol. 8, No. 3, ISSN – 1843 – 2115, pp. SW35 – SW38, 30 June – 02 July 2016., 2016, (TC_6_2016_DECIE)

50. Georgiana-Mihaela Nitu, Florin-Marian Birleanu, *FASharpSim: A Software Simulator for Deterministic and Nondeterministic Finite Automata*, Journal of Electrical Engineering, Electronics, Control and Computer Science, vol. 2, no. 2, June 2016, pp. 13-20, ISSN: 2457-7812, ISSN-L: 2457-7812 (BDI: Google Scholar), 2016, (TC_6_2016_DECIE)
51. Mihai-Ionut Vilcu, Florin-Marian Birleanu, *Design and implementation of a translator for converting a minimalist language to VHDL*, University of Pitesti Scientific Bulletin. Series: Electronics and Computers Science, vol. 16, no. 2/2016, pp. 18-25, pISSN: 2344-2158, eISSN: 2344-2166 (BDI: Index Copernicus), 2016, (TC_6_2016_DECIE)
52. Ene Alexandru, Ene Andrei, *A foreign language vocabulary learning software application*, ECAI 2016 (International Conference – 8th Edition, Electronics, Computers and, Artificial Intelligence, Ploiesti, ROMÂNIA, 30 June -02 July 2016), Volume 8, (BDI IEEE Xplore), 2016, 2016, (TC_6_2016_DECIE)
53. Alexandru Ene, Cosmin Stirbu, *Natural gas consumption prediction with feed forward neural networks*, University of Pitesti Scientific Bulletin (Series: Electronics and Computers Science, Pitesti, 2016), Vol. 16, Issue 2, pg. 8-11, (BDI Copernicus), 2016, 2016, (TC_7_2016_DECIE)
54. Corina Savulescu, Zdzislaw Polkowski, Nitul Dutta, *Data Management for Business - A review of collaborative techniques*, ECAI 2016, Vol.7, No.3/2016, ISSN- 1843 – 2115, 2016, (TC_8_2016_DECIE)
55. Gheorghe Serban, Gabriel Vasile Iana, Petre Anghelescu, *Fault detection of direct radiator loudspeaker systems by phase characterisation*, The 8th International Conference on Electronics, Computers and artificial Intelligence, Published: 2016, Ploiesti ROMANIA, ISSN-1843-2115 IEEE Xplore, Google Scholar, 2016, (TC_9_2016_DECIE)
56. Carmen Maria Moraru, Iuliana Stefan, Ovidiu Balteanu, Ciprian Bucur, Nicolae Sofilca, Gabriel Ionescu, Maria Alexandra Retevoi, Florentina Enescu, *Monitoring and analysis of the turbodetentor operating system from cryogenic distillation plant using labview software*, International Journal (International Journal of Advanced Research (IJAR) ISSN 2320-5407A CrossRef Indexed Journal THOMSON REUTERS Researcher ID: B-4980-2016), Volume 4, Issue 6, 1-6, Impact Factor: 5.336, IC Value 56.43, (BDI: Google Scholar, CAS, DOAJ, Copernicus International Ltd, Poland, Cite Factor, Scribd, CrossRef, Science Library Index, scientific World Index, ROAD Directory of Open Access Scholarly Resources, COPAC, Root Indexing, National Library of Medicine, MEDLINE/PubMed Data Element, ResearchGate, Pakistan Academic Research (Growing Knowledge for Feature), Electronic journal library, Academic Journals Database, MIAR 2014 LIVE; Information Matrix for the Analysis of Journals, ...), 2016, 2016, (TC_9_2016_DECIE)
57. Bogdan Gavrioloaia, Radu Vizireanu, Octavian Fratu, Cristian Barca, Constantin Mara, Anghelescu Petre, *Design of Multiband Microwave Filter with Asymmetric Polygonal Microstrip Loops*, The 8th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2016, Vol. 8, No. 3, ISSN – 1843 – 2115, pp. YO05 – YO08, 30 June – 02 July 2016, 2016, (TC_9_2016_DECIE)

D. Lucrări (articole) publicate în perioada 2016 - 2016 în reviste și volume de conferințe cu referenți (neindexate)

D1. Articole în reviste

1. Bogdan-Adrian Enache, Eugen Diaconescu, *Senzori folositi in cadrul automobilului – Partea a III-a*, AUTOMATIZĂRI ȘI INSTRUMENTAȚIE, ISSN 1582-2334, Nr. 1/2016, pag. 20-22, 2016, (TC_11_2016_DECIE, TC_12_2016_DECIE)
2. Bogdan-Adrian Enache, Eugen Diaconescu, *Senzori folositi in cadrul automobilului – Partea a IV-a*, ISSN 1582-2334, Nr. 1/2016, pag. 19-22, 2016, (TC_11_2016_DECIE, TC_12_2016_DECIE)
3. Eugen DIACONESCU, *Senzori folositi in cadrul automobilului – Partea I*, AUTOMATIZĂRI ȘI INSTRUMENTAȚIE, ISSN 1582-2334, Nr. 1/2014, pag. 19-20, 2016, (TC_11_2016_DECIE, TC_12_2016_DECIE)
4. Bogdan-Adrian Enache, Eugen Diaconescu, *Senzori folositi in cadrul automobilului – Partea a II-a*, AUTOMATIZĂRI ȘI INSTRUMENTAȚIE, ISSN 1582-2334, Nr. 1/2016, pag. 16-17, 2016, (TC_11_2016_DECIE, TC_12_2016_DECIE)
5. Bogdan-Adrian Enache, Eugen Diaconescu, *Senzori folositi în cadrul automobilului Partea I – Senzori optici*, Revista de Automatizări și Instrumentație, ISSN 1582-2334, nr. 1/2016, pp. 16-, 2016, (TC_12_2016_DECIE)
6. Bogdan-Adrian Enache, Eugen Diaconescu, *Senzori folositi în cadrul automobilului Partea a II a – Senzori magnetici*, Revista de Automatizări și Instrumentație, ISSN 1582-2334, nr. 2/2016, pp. 16-, 2016, (TC_12_2016_DECIE)
7. Bogdan-Adrian Enache, Eugen Diaconescu, *Senzori folositi în cadrul automobilului Partea a III a – Senzori electrici*, Revista de Automatizări și Instrumentație, ISSN 1582-2334, nr. 3-4/2016, pp. 20-22, 2016, (TC_12_2016_DECIE)

D2. Articole în volumele manifestărilor științifice

1. Teodorescu Rodica-Mihaela, *Instrument virtual implementat în Labview, utilizat în studiul circuitului de derivare*, 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)
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)

F. Granturi / proiecte de cercetare în perioada 2016 - 2016

F1. Granturi / proiecte câștigate prin competiție internațională

1. *STUDY OF VARIATION OF THE MECHANICAL PROPERTIES OF SUPERALLOYS INCONEL 718 AND RENE 41 UNDER THERMAL SHOCK : (TERMOINCORENE -2016)*, Daniel-Constantin ANGHEL, Marioara ABRUDEANU, Vasile RIZEA, Gabriela PLĂIAȘU, Luminița CONSTANTINESCU, Programul transnational FP7 SFERANET/CNRS Comisia europeana, SFERA II (SOLAR FACILITIES FOR THE EUROPEAN RESEARCH AREA), Denumire proiect: Study of variation of the mechanical properties of superalloys INCONEL 718 and RENE 41 under thermal shock, Franta, Laboratorul PROMES-CNSR-Odeillo, 2016-2017, http://sfera2.sollab.eu/access/access_selected, 2016, 0.00, (TC_11_2016_DECIE)
2. *ERASMUS + IESRES INNOVATIVE EUROPEAN STUDIES on RENEWABLE ENERGY SYSTEMS*, Beloiu Robert, Savulescu Corina, Iorgulescu Mariana, Bostan Ionel, Birleanu Florin, 17th – 22st October 2016, PERUGIA, ITALY, 2016, 0.00, (TC_11_2016_DECIE)
3. *Cost-Efficient Data Collection for Smart Grid and Revenue Assurance*, , Cost-Efficient Data Collection for Smart Grid and Revenue Assurance (Optimizarea costurilor la colectarea datelor de la contoarele inteligente si metode de imbunatatire a profitului la transportul energiei electrice) CERA-SG, Project Outline Application ID: 77594, Project plan – ERA-Net Smart Grids Plus, Total 2016 = 39.627,00 Euro (178.321,50 Lei), 2016, 0.00, (TC_6_2016_DECIE)

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. Silviu Ionita, *Sistem de achiziție, monitorizare, analiză și recunoaștere a vibrațiilor pentru protecția infrastructurilor critice (SmartVibes)*, Proiect PN III: Programul 2 - Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare , Tip proiect: Transfer la operatorul economic, 2016- 2018. (Cordonator: Mira Technologies Group).Punctaj: 2x1an =2, 2016, (TC_2_2016_DECIE, TC_4_2016_DECIE)
3. Mihai Oproescu, *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 nivel de departament

Categoria / subcategoria activității de cercetare științifică	2016
B. Cărți și capitole în cărți	
B.1 de specialitate, internaționale (autor)	10
B.2 de specialitate, naționale (autor)	5
B.3 de specialitate, internaționale (editor)	0
B.4 de specialitate, naționale (editor)	0
B.5 Manuale didactice, suporturi de curs	26
B.6 Îndrumare de laborator, culegere de pb.	14
C. Lucrări (articole) ISI / BDI	
C.1 în reviste cotate ISI	6

C.2 în volume indexate ISI Proceedings	21
C.3 în reviste /volumele unor manifestări științifice indexate BDI	57
D. Lucrări (articole) neindexate	
D.1 în reviste	7
D.2 în volumele manifestărilor științifice	3
E. Brevete de invenție	0
F. Granturi / proiecte de cercetare	
F.1 câștigate prin competiție internațională	3
F.2 câștigate prin competiție națională	3
F.3 cu mediul socio-economic	0

Director D.E.C.I.E,
Prof. dr. ing. Gheorghe Șerban

Întocmit,
Conf. dr.ing. Mihai OPROESCU