

RAPORT – REZULTATE ANUALE CERCETARE ȘTIINȚIFICĂ CCMSPS – ANUL 2015

1. Monografiile, tratate publicate in edituri recunoscute din străinătate				
Nr.	Autori	Titlul	Editura	Anul/Pagini
1				
2. Monografiile, tratate publicate in Editura Academiei				
Nr.	Autori	Titlul	Anul/ Pagini	
1				
3. Monografiile, tratate publicate in edituri recunoscute de CNCSIS sau CNCS				
Nr.	Autori	Titlul	Editura	Anul/Pg
1	Daniel Alexandru Vișan, Ioan Liță, Mariana Jurian, Ion Bogdan Cioc	Dispozitive semiconductoare pentru microunde	Ed. Matrix Rom, Bucuresti	2015/221
2	Ene Alexandru	Programare orientata pe obiecte. Lucrări de laborator	Ed. Univ.Pitesti	2015/178
3	Ene Alexandru	Programare pentru web. Lucrari de laborator	Ed. Univ.Pitesti	2015/125
4	Monica-Anca Chita, Grigore-Adrian Iordachescu	Grafica asistata de calculator: teorie si aplicatii	Matrix Rom	2015/120
5	Valeriu Manuel Ionescu	"Rețele de calculatoare. Aplicații", e-ISBN: 978-606-560-426-1	Ed. Universității din Pitești, 2015	2015/90
6	Valeriu Manuel Ionescu, Grigore-Adrian Iordachescu	Comunicatii, virtualizare si procesare multimedia	Editura Universitatii din Pitesti	2015/148
7	I. Bostan	Circuite logice secvențiale – Teorie și aplicații	MatrixRom	2015/300
8	C.I. Rincu, V.G. Iana	Implementarea modulelor digitale cu structuri reprogramabile	Editura Academiei Tehnice Militare	2014/189
9	Gabriel V. Iana	Procesarea Digitala a Semnalelor – Teorie si Aplicații	Editura Universitatii din Pitesti	2015/139
10	Laurențiu-Mihai Ionescu, Alin Mazăre	Aplicații cu circuite reconfigurabile	Universității din Pitești	2015/150
11	Laurențiu-Mihai Ionescu	Proiectare cu sisteme in timp real	Universității din Pitești	2015/150
12	Alin-Gheorghita Mazare, Laurentiu-Mihai Ionescu	Tehnici CAD – îndrumar de laborator	Universității din Pitești	2015/200
4. Articole in publicatii cotate ISI (pentru revistele cotate ISI, Factorul de Impact – F.I – este publicat anual de către Thompson Reuters in Jurnal Citation Report)				
Nr.	Autori	Titlul	Revista	
1	N. Bizon, M. Oproescu, M. Raceanu	Efficient Energy Control Strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source	Energy Conversion Management 77 (15 January 2015), 768-772. doi:10.1016/j.enconman.2014.11.002 WOS:000348886800010	

	2	N. Bizon M. Raduț, M. Oproescu	Energy control strategies for the Fuel Cell Hybrid Power Source under unknown load profile	Energy 86 (15 June 2015) 31-41 http://dx.doi.org/10.1016/j.energy.2015.03.118 WOS:000356986300004
	3	N. Bizon	Global Maximum Power Point Tracking based on new Extremum Seeking Control scheme	Progress in Photovoltaics: Research and Applications (November 2015) DOI: 10.1002/pip.2700; http://onlinelibrary.wiley.com/doi/10.1002/pip.2700/full
5.	Articole in publicatii cotate +B /B – CNCSIS (A, B, C – CNCS)			
	Nr.	Autori	Titlul	Revista
	1	M. Răceanu, N. Bizon, M. Iliescu, M. Culcer, A. Marinoiu, L. Pătularu, D. Schitea, M. Varlam, Mihai; Ștefănescu, Ioan;	Performanța Pilei de Combustibil de tip PEM utilizând diferite Moduri de Alimentare cu Hidrogen	Conferința "Știința modernă și energia", ClujNapoca, mai 2015, Ed. Risoprint, ISSN 2066-4125.; XXXIV/ISSN 2066-4125/ ISSN-L 2066-4125/2015:05/ Cluj-Napoca; 73 – 88.
	2	Ene Alexandru	A JAVA APPLICATION FOR BUILDING ADAPTIVE VOCABULARY LEARNING COMPUTER TESTS	Bul. St. FECC, pg. 9-12
	3	Ene Alexandru	A JAVA CLIENT SERVER APPLICATION FOR BUILDING BALANCED GROUPS	Bul. St. FECC, pg. 13-16
	4	Ionel Bostan	Implementation of Active Loads MOSFET Amplifiers in Vocational Training	JEECC, 2015, Nr.2
	5	Florin-Marian Birleanu, Cosmin-Ionut Maciucă, Bogdan-Adrian Enache	A didactic implementation of a minimalist compiler, in JEECCS no. 1, vol. 1, September 2015, ISSN 2457-7812, ISSN-L 2457-7812, pp. 27-32	JEECCS no. 1, vol. 1, September 2015 Google Scholar
	6	Valeriu Manuel Ionescu, Dumitru Cazacu	Virtualization impact on COMSOL processor detection	Nr 2/2015, University of Pitesti Scientific Bulletin, Series: Electronics and Computers Science Indexare Copernicus
	7	Enescu Florentina Magda, Știrbu Cosmin, Liță Adrian Ioan	Image search algorithms - Visual processing and query databases after the color descriptor	
	8	Enescu Florentina Magda, Liță Adrian Ioan	Multimedia data management by object – oriented semantic tool	
	9	Silviu Ionita, Gabriel Iana, Sandel Zaharia, Cristian Monea	An agent-based communications model for emergency scenarios deployment in case of disasters and temporary events	Revista TELECOMUNICATII, an LVII, nr. 2/2014, ISSN 2247-1863
	10	Soare Daniela – Roxana, Valeriu Manuel Ionescu	"Designing a SNMP Manager Gui Based on Mono for Linux and Windows"	University of Pitesti Scientific Bulletin, Series: Electronics and computers science Vol. 1 / 2015, pg. 1-6, pISSN: 2344 – 2158 (old pISSN 1453-1119), eISSN: 2344 – 2166, Index: Index Copernicus
	11	Valeriu Manuel Ionescu, Dumitru Cazacu	"Virtualization impact on COMSOL processor detection"	University of Pitesti Scientific Bulletin, Series: Electronics and computers science Vol. 2, Issue 15 / 2015, pg. 25-32, pISSN: 2344 – 2158 (old pISSN 1453-1119), eISSN: 2344 – 2166, Index: Index Copernicus
6.	Articole incluse in baze de date indexate cu recunoaștere ISI			
	Nr.	Autori	Titlul	Baza date

1	Ionel Bostan, Robert Beloiu, Nicu Bizon	Learning Digital Frequency Dividers through Practical Laboratory Activities	Elsevier Procedia - Social and Behavioral Sciences 180 (2015) 1014–1021 http://www.sciencedirect.com/science/article/pii/S1877042815015414
2	Robert Beloiu, Ionel Bostan, Mariana Iorgulescu	Internationalization of Educational Programs Through European Projects Procedia - Social and Behavioral Sciences Vol 180, 5 May 2015, Pages 1007–1013 http://www.sciencedirect.com/science/article/pii/S1877042815015396	Elsevier
3	Petre Anghelescu, Gabriel Iana, Ionut Tramandan	Human footprint detection using seismic sensors.	IEEEExplore, Scopus, ISI WoS (in curs de indexare)
4	Gabriel Iana, Petre Anghelescu	Vibration monitoring system for human activity detection	IEEEExplore, Scopus, ISI WoS (in curs de indexare)
5	Cristian Barca, Dan Claudiu Barca, Constantin Mara, Petre Anghelescu, Bogdan Gavrioloaia, Radu Vizireanu, Razvan Craciunescu, Octavian Fratu	Improving Storage Capacity by Distributed Exact Deduplication Systems	IEEEExplore, Scopus, ISI WoS (in curs de indexare)
6	A. Mazare, L.M. Ionescu, A.I. Lita, G. Serban	Real Time System for Image Acquisition and Pattern Recognition Using Boolean Neural Network	Proceedings ISSE 2015
7	L.M. Ionescu, A. Mazare, A.I. Lita, G. Serban	Fully Integrated Artificial Intelligence Solution for Real Time Route Tracking	Proceedings ISSE 2015
8	N.Belu, L.M. Ionescu, A. Misztal, A. Mazare	Poka Yoke system based on image analysis and object recognition	Web of Science
7. Articole incluse in baza de date indexate cu recunoastere în domeniul			
Nr.	Autori	Titlul	Baza date
1	Raceanu, Mircea; Iliescu, Mariana; Culcer, Mihai; Marinoiu, Adriana; Varlam, Mihai; Bizon, Nicu.	Fuelling Mode Effect on a PEM Fuel Cell Stack Efficiency.	Progress of Cryogenics & Isotopes Separation 2015, Vol. 18 Issue 1, p15-24. http://icit-journal.icsi.ro/ http://web.a.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=15822575&AN=103682101&h=ozBLWmeM9LKuik9cQUiQX0RKIGnEHZ52L0PpDtO%2fqocnv6UcZ00f8NKmDI83Ide0HtNR04EgHHQsXBK00o2BdA%3d%3d&cl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d15822575%26AN%3d103682101
2	Thounthong, P. ; Sikkabut, S. ; Mungporn, P. ; Ekkaravarodome, C. ; Bizon, N. ; Tricoli, P. ; Nahid-Mobarakeh, B. ; Pierfederici, S. ; Davat, B.	Performance investigation 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 Industry Applications Society Annual Meeting, 2015 http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7339353

3	Arva Mihai Cătălin, Nicu Bizon	Some aspects on modeling of the signal and power integrity in a pcb based on waveform analysis.	Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, No. , pp. , Pitești, ISSN 1843–2115 http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=7301173&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D7301173
4	Andrei Ion Bogdan, Nicu Bizon	Voltage-mode control of the dc-dc power converter - a short review	Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, No. , pp. , Pitești, ISSN 1843–2115 http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=7301148
5	Radut Marin, Oproescu Mihai	Multifunctional Integrated Photovoltaic Window with advanced features of Energy Harvesting and Indoor Shading control:Modeling	IEEEExplore, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, http://ecai.ro/
6	Daniel Alexandru Visan, Ioan Lita, Ion Bogdan Cioc, Rodica Mihaela Teodorescu	A New Approach for Aerodynamic Levitation Based Position Control Using Digital Image Processing and Data Acquisition	IEEEExplore
7	Rodica Mihaela Teodorescu, Ioan Lita, Ion Bogdan Cioc, Daniel Alexandru Visan,	Virtual instrumentation application for symmetrical and asymmetrical text encryption/decryption studying	IEEEExplore
8	V. Berechet, L. Ionescu , A. Mazare, I. Lita,	Real TimePCB DiagnosisUsing FPGA-Implanted VideoAnalysingTool	IEEEExplore
9	L. Ionescu , A. Mazare , V. Berechet, I. Lita	Real Time System for Shape Extraction from an Image	IEEEExplore
10	I.B. Cioc, M. Jurian, I. Liță, R.M. Teodorescu	A Method for Increasing Security in Electronic Communication Services Based on Text Messages Communication	ECAI 2015 – International Conference – 7th Edition Electronics, Computers and Artificial Intelligence, 25 June – 27 June, 2015, Bucharest, România, W-AE 5, Volumul 2, http://ECAI.upit.ro
11	Cristian Ion Hoarca, Marian Raducu	Performance comparison of three MPPT algorithms: AESC, mESC and P&O	IEEEExplore, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, pp. S35-S42, București, Vol. 7 – No. 1/ 2015 ISBN – 978-1-4673-6646-5
12	Cristian BARCA, Dan Claudiu BARCA, Constantin MARA, Marian RADUCU, Bogdan GAVRILLOAIA, Radu VIZIREANU, Razvan CRACIUNESCU, Simona HALUNGA	Privacy profiling impact of Android mobile applications	IEEEExplore, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, pp. C5-C10, București, Vol. 7 – No. 1/ 2015 ISBN – 978-1-4673-6646-5
13	Ene Alexandru, Stirbu Cosmin	A Java simulation software for the study of the effects of the short circuit faults in a feed forward neural network	IEEE Explore, ECAI 2015 , 25-27 iunie, pag. S53-S56
14	Enescu Florentina Magda, Știrbu Cosmin, Liță Ioan	Multimedia data management by object – oriented semantic tool	ECAI 2015 - International Conference – 7th Edition, Electronics, Computers and Artificial Intelligence, 25 June -27 June, 2015, Bucharest, ROMÂNIA, Volume 1, pp. S57-S62
15	I. Bostan, Guillermo Ferrando, Carlos Hoyos	FPGA Implementation of Frequency dividers in Vocational Education	ECAI 2015

16	Savulescu Corina, Zdzislaw Polkowski, Deaconescu Ionuț Cosmin	Security in e-learning systems	IEEE Xplore, ECAI 2015
17	Savulescu Corina, Zdzislaw Polkowski, Albu Iulian Alexandru	The Online and Computer Aided Assessment	IEEE Xplore, ECAI 2015
18	Valeriu Manuel IONESCU, Adrian-Viorel DIACONU.	Rubik's cube principle based image encryption algorithm implementation on mobile devices, No. 32014, ISSN-1843-2115, IEEE Catalog number: CFP1427U-PRT, pag. 13-19, Bucuresti, 23-25 Octombrie 2015,	Index: IEEE
19	Gabriel V. IANA, Valeriu Manuel IONESCU	Virtualization of VoIP laboratories, 2015 14th RoEduNet International Conference - Networking in Education and Research (NER'2015), September 24- 26, 2015, Craiova, ISBN 978-1-4673-8179-6, PG. 115-120	Index: IEEE
20	Valeriu Manuel IONESCU, Adrian-Viorel DIACONU	Testing the performance of the improved Rubik's cube encryption algorithm on virtual systems, 2015 14th RoEduNet International Conference - Networking in Education and Research (NER'2015), September 24- 26, 2015, Craiova, ISBN 978-1-4673-8179-6,PG. 121-126	Index: IEEE
21	Valeriu Manuel IONESCU, Gabriel V. IANA -	Teaching virtualization laboratories in higher education, 2015 14th RoEduNet International Conference - Networking in Education and Research (NER'2015), September 24- 26, 2015, Craiova, ISBN 978-1-4673-8179-6, PG 23-27	Index: IEEE
22	Valeriu Manuel IONESCU	Load balancing techniques used in cloud networking and their applicability in local networking, No. 32014, ISSN-1843-2115, IEEE Catalog number: CFP1427U-PRT, pag. 13-19, Bucuresti, 23-25 Octombrie 2015,	Index: IEEE
23	Valeriu Manuel IONESCU	The analysis of the performance of RabbitMQ and ActiveMQ, 2015 14th RoEduNet International Conference - Networking in Education and Research (NER'2015), September 24- 26, 2015, Craiova, ISBN 978-1-4673-8179-6, PG. 132-137	Index: IEEE

	24	Iana Vasile Gabriel, Petre Anghelescu	Vibration monitoring system for human activity detection	The 7th International Conference on Electronics, Computers and artificial Intelligence, Vol. 2, No. 32014, ISSN-1843-2115, IEEE Catalog number: CFP1427U-PRT	
	25	Petre Anghelescu, Gabriel Vasile Iana, Ionut Tramandan	HUMAN FOOTSTEP DETECTION USING SEISMIC SENSORS	The 7th International Conference on Electronics, Computers and artificial Intelligence, Vol. 2, No. 32014, ISSN-1843-2115, IEEE Catalog number: CFP1427U-PRT	
8.	Articole publicate in alte reviste din strainatate / Academie				
	Nr.	Autori	Titlul	Revista	
	1	Ionita Silviu	Inteligenta artificiala – între tehnologie și etica	Studii si Comunicari, Volumul VIII / 2015 ISSN: 1844 – 9220 http://studii.crist.ro/arhiva.php	
9.	Articole publicate in vol. unor manifestări științifice internaționale cu ISBN/ISSN organizate in străinătate de o entitatea științifică internațională				
	Nr.	Autori	Titlul	Revista / publicația	Entitatea științifică organizatoare
	1	M.A. Chiță	Relative Humidity Measurement System with Relative Humidity Capacitive Sensor by Type Humicor 5000	Conference Proceedings, The 26th DAAAM International Symposium Intelligent Manufacturing & Automation: Focus on Sustainability, Zadar, Croatia, 21st-24th October 2015	Danube Adria Association for Automation & Manufacturing (DAAAM)
	2	M.A. Chiță	Some Aspects Concerning the Interfacing of the Smart Temperature Sensors to Computers Using an Acquisition Board	Conference Proceedings, The 26th DAAAM International Symposium Intelligent Manufacturing & Automation: Focus on Sustainability, Zadar, Croatia, 21st-24th October 2015	Danube Adria Association for Automation & Manufacturing (DAAAM)
	3	A. Mazare, L.M. Ionescu, A.I. Lita, G. Serban	Real Time System for Image Acquisition and Pattern Recognition Using Boolean Neural Network	Proceedings ISSE 2015	IEEE, International Spring Seminar on Electronics Technology "Novel Trends in Electronics Manufacturing", University Edger, Hungary
	4	L.M. Ionescu, A. Mazare, A.I. Lita, G. Serban	Fully Integrated Artificial Intelligence Solution for Real Time Route Tracking	Proceedings ISSE 2015	IEEE, International Spring Seminar on Electronics Technology "Novel Trends in Electronics Manufacturing", University Edger, Hungary

	5	N. Belu, L.M. Ionescu, A. Misztal	Computer Aided Design Solution Based on Genetic Algorithms for FMEA and Control Plan in Automotive Industry	International Conference on Automotive Technology and Management, The Netherlands, Amsterdam, Aug 06-07	International Mechanical and Mechatronics Engineering Committee
	6	Ionescu L., Mazare A., Anton C.	Configurable hardware accelerator for solving equations in real time	Proceedings AE2015	IEEE, Pilsen University, International Conference on Applied Electronics,
10.	Articole publicate în vol. unor manifestări științifice internaționale cu ISBN/ISSN organizate în țară sub tutela unei entități științifice internaționale				
	Nr.	Autori	Titlul	Revista / publicația	Entitatea științifică organizatoare
	1	S.D. Mirel, N. Bizon.	Preliminary tests based on fuzzy intelligence on a system of non-destructive examination.	Proceedings of Int. conf. Technologies and Power Electronics (TPE15), Sept 2015, Bucharest, Romania (www.iotpe.com) ISSN 2303-9752 (CD-ROM: ISSN 2303-9760)	http://www.iotpe.com/ICTPE/ICTPE-2015/ConferenceProgram.html
	2	M.A. Chiță, C. Stănescu	Some aspects concerning the relative humidity measurement with capacitive sensor	CONFERENCE PROCEEDINGS The 11th International Conference on Technical and Physical Problems of Electrical Engineering 10 - 12 September 2015 BUCHAREST, ROMANIA	Technical Physical Engineering (TPE)
	3	G.R. Sisman, S.D. Mirel, M. Oproescu	PREDICTIVE MAINTENANCE OF THE ELECTRONIC EQUIPMENT - A BRIEF REVIEW	CONFERENCE PROCEEDINGS The 11th International Conference on Technical and Physical Problems of Electrical Engineering, TPE 2015	LUMINA - University of South-East Europe Bucharest, Romania, www.lumina.org
	4	Rodica-Mihaela Teodorescu	Instrument virtual implementat în Labview utilizat în studiul conversiei numerice	ISBN 978-606-576-708-9	Simpozionul Internațional "Universul Științelor" – Ediția a VI-a, 6 sept., 2015, Iași http://www.ccdvl.ro/index.php/214-simpozion-international-universul-stiintelor-editia-a-vi-a

	5	Gabriel V. Iana, Valeriu Manuel Ionescu	Virtualisation of VoIP laboratories	14th RoEduNet International Conference - Networking in Education and Research (NER'2015), ISBN: 978-1-4673-8179-6	RoEduNet
	6	Valeriu Manuel Ionescu, Gabriel V. Iana	Teaching virtualization laboratories in higher education	14th RoEduNet International Conference - Networking in Education and Research (NER'2015), ISBN: 978-1-4673-8179-6	RoEduNet
	7	Mazare, A., Ionescu, L.-M.; Lita, A.-I.; Serban, G.; Ionut, M.	Mobile system with real time route learning using Hardware Artificial Neural Network	Proceedings ECAI 2015	IEEE, University of Pitesti, University Lumina, Bucharest, International Conference on Electronics, Computers and Artificial Intelligence
	8	Berechet, V.A.; Ionescu, L.M.; Mazare, A.G.; Lita I.	Real time PCB diagnosis using FPGA - implemented video analysis tool	Proceedings SITME 2015	IEEE, Politehnica Bucharest, Transilvania Brasov International Symposium for Design and Technology in Electronic Packaging (SIITME),
	9	Ionescu, L.M.; Mazare, A.G.; Berechet, V.A.; Lita, I.	Real - time system for shape extraction from an image	Proceedings SITME 2015	IEEE, Politehnica Bucharest, Transilvania Brasov International Symposium for Design and Technology in Electronic Packaging (SIITME)
11	Articole publicate in volume/reviste ale unor manifestari stiintifice/periodice din strainatate/tara				
	Nr.	Autori	Titlul	Revista / publicatia	Entitatea stiintifica organizatoare
12	Citari in reviste cotate ISI (fara autocitari)/citari in publicatii aparute in Edituri internationale recunoscute CNCSIS				
	Lucrarea citata + revista			Lucrarea care citeaza + revista	
	1-9	N. Bizon, M. Oproescu, M. Raceanu, Efficient Energy Control Strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, Energy Conversion Management 77 (15 January 2015), 768-772. doi:10.1016/j.enconman.2014.11.002 WOS:000348886800010	Dynamic control and advanced load management of a stand-alone hybrid renewable power system for remote housing; By: Alnejaili, Tareq; Drid, Said; Mehdi, Driss; et al. ENERGY CONVERSION AND MANAGEMENT Volume: 105 Pages: 377-392 Hybrid energy fuel cell based system for household applications in a Mediterranean climate; By: Nizetic, S.; Tolj, I.; Papadopoulos, A. M. ENERGY CONVERSION AND MANAGEMENT Volume: 105 Pages: 1037-1045 Fuel cell/back-up battery hybrid energy conversion systems: Dynamic modeling and harmonic considerations By: Fathabadi, Hassan; ENERGY CONVERSION AND MANAGEMENT Volume: 103 Pages: 573-584 Distributed generation incorporated with the thermal generation for optimum operation of a smart grid considering forecast error; By: Howlader, Harun Or Rashid; Matayoshi, Hidehito; Senjyu, Tomonobu; ENERGY CONVERSION AND MANAGEMENT Volume: 96 Pages: 303-314 A comparative analysis of meta-heuristic methods for power management of a dual energy storage system for electric vehicles Trovão, J.P., Antunes, C.H. Energy Conversion and Management; 95, pp. 281-296 http://www.sciencedirect.com/science/article/pii/S0196890415001430		

		<p>Demonstration of the operation and performance of a pressurised alkaline electrolyser operating in the hydrogen fuelling station in Porsgrunn, Norway By: Kiaee, Mahdi; Cruden, Andrew; Chladek, Petr; et al.; ENERGY CONVERSION AND MANAGEMENT Volume: 94 Pages: 40-50</p> <p>A review on DC/DC converter architectures for power fuel cell applications; By: Kolli, Abdelfatah; Gaillard, Arnaud; De Bernardinis, Alexandre; et al. ENERGY CONVERSION AND MANAGEMENT Volume: 105 Pages: 716-730</p> <p>Fault Tolerant Control Strategy applied to PEMFC water management By: Lebreton, Carole; Benne, Michel; Damour, Cedric; et al. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: 40 Issue: 33 Pages: 10636-10646</p> <p>Numerical analysis of the optimum membrane/ionomer water content of PEMFCs: The interaction of Nafion (R) ionomer content and cathode relative humidity; By: Xing, Lei; Das, Prodip K.; Song, Xueguan; et al. APPLIED ENERGY Vol: 138 Pages: 242-257</p>
10-12	<p>N. Bizon, Tracking the maximum efficiency point for the FC system based on extremum seeking scheme to control the air flow, Applied Energy 129 (15 September 2014) 147–157. http://dx.doi.org/10.1016/j.apenergy.2014.05.002 WOS:000339775400016</p>	<p>A review on DC/DC converter architectures for power fuel cell applications; By: Kolli, Abdelfatah; Gaillard, Arnaud; De Bernardinis, Alexandre; et al. Energy Conversion and Management Volume: 105 Pages: 716-730</p> <p>Fault Tolerant Control Strategy applied to PEMFC water management By: Lebreton, Carole; Benne, Michel; Damour, Cedric; et al. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: 40 Issue: 33 Pages: 10636-10646</p> <p>Numerical analysis of the optimum membrane/ionomer water content of PEMFCs: The interaction of Nafion (R) ionomer content and cathode relative humidity; By: Xing, Lei; Das, Prodip K.; Song, Xueguan; et al. APPLIED ENERGY Vol: 138 Pages: 242-257</p>
13-14	<p>N. Bizon, Improving the PEMFC energy efficiency by optimizing the fuelling rates based on extremum seeking algorithm, International Journal of Hydrogen Energy 39(20) (3 July 2014), 10641–10654. http://dx.doi.org/10.1016/j.ijhydene.2014.04.194 WOS:000338388200032</p>	<p>Feedforward fuzzy-PID control for air flow regulation of PEM fuel cell system By: Ou, Kai; Wang, Ya-Xiong; Li, Zhen-Zhe; et al.; INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Vol: 40 Issue: 35 Pags: 11686-11695</p> <p>Comparison of robust and adaptive second order sliding mode control in PEMFG air-feed systems By: Matraji, Imad; Ahmed, Fayez Shakil; Laghrouche, Salah; et al. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: 40 Issue: 30 Pages: 9491-9504</p>
15-22	<p>N. Bizon, Load-following Mode Control of a Standalone Renewable/Fuel Cell Hybrid Power Source, Energy Conversion Management 77 (January 2014) 763–772. http://dx.doi.org/10.1016/j.enconman.2013.10.035 WOS:000330494600080</p>	<p>Coordinated control of distributed energy resources to support load frequency control; By: Pandi, V. Ravikumar; Al-Hinai, A.; Feliachi, Ali; Energy Conversion and Management Vol: 105 Pags: 918-928</p> <p>Frequency control of isolated WT/PV/SOFC/UC network with new control strategy for improving SOFC dynamic response; By: Taghizadeh, Mahdi; Hoseintabar, Mohammad; Faiz, Jawad; INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS Volume: 25 Issue: 9 Pages: 1748-1770</p> <p>DC Bus Stabilization of Li-Ion Battery Based Energy Storage for a Hydrogen/Solar Power Plant for Autonomous Network Applications By: Thounthong, Phatiphat; Sikkabut, Suwat; Mungporn, Pongsiri; et al. IEEE Transactions On Industry Applications Vol: 51 Issue: 4 Pages: 2717-2725</p>

		LMI approach of state-feedback controller design for a STATCOM-supercapacitors energy storage system associated with a wind generation By: Bensmaine, Faycal; Bachelier, Olivier; Tnani, Slim; et al. ENERGY CONVERSION AND MANAGEMENT Volume: 96 Pages: 463-472
		Alternative energy scenarios for Bozcaada island, Turkey By: Kalinci, Yildiz; RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 45 Pages: 468-480
		Demonstration of the operation and performance of a pressurised alkaline electrolyser operating in the hydrogen fuelling station in Porsgrunn, Norway By: Kiaee, Mahdi; Cruden, Andrew; Chladek, Petr; et al. ENERGY CONVERSION AND MANAGEMENT Volume: 94 Pages: 40-50
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84	A Mazare, L Ionescu, G Serban, I Lita FPGA-based system for data acquisition and remote communication	E Ceuca, G Corsiuc The Smart City-integrated green energy system	
85	A Misztal, M Butlewski, N Belu, LM Ionescu Creating involvement of production workers by reliable technical maintenance	N Isac, Dc Anghel, T Yanik Contributions to achieve an innovative study of motivational parameters, based on the human operator satisfaction and performance, using Artificial Neural	
86	A Misztal, M Butlewski, N Belu, LM Ionescu Creating involvement of production workers by reliable technical maintenance	A Misztal Technical Determinants of the Success of the Quality Management Systems Implementation in Automotive Industry	
87	F. M. Birleanu, I. Candel, C. Ioana, C. Gervaise, A. Serbanescu and G Serban, A vector approach to transient signal processing	Digulescu, A. Candel, I.; Ioana, C.; Vasile, G.; Dunca, G.; Bucur, D.M.; Serbanescu, A. (Advanced Topics in Electrical Engineering (ATEE), 2015 9th International Symposium on, 7-9 may 2015, Bucharest) Water hammer effect characterization using an acoustic signal processing approach	
13	Grant sau contract de cercetare științifică internațional cu parteneri multipli, la care Univ. din Pitești are calitate de promotor - Director (responsabil)		
	Nr.	Denumire contract	Finanțator
	1		
14	Grant sau contract de cercetare științifică internațional cu parteneri multipli, la care Univ. din Pitești are calitate de promotor - membru în echipă)		
	Nr.	Denumire contract	Finanțator
	1		
15	Grant sau contract de cercetare științifică național cu parteneri multipli, la care Univ. din Pitești are calitate de promotor - Director (responsabil)		
	Nr.	Denumire contract	Finanțator
	1		
16	grant sau contract de cercetare științifică național cu parteneri multipli, la care Univ. din Pitești are calitate de promotor - membru în echipă)		

	Nr.	Denumire contract	Finanțator
	1		
17.	Director (responsabil) de grant, (inclusiv în granturile cu parteneri multipli) sau contract de cercetare științifică cu valoarea unitară care revine Universității din Pitești, (conform devizului în perioada referită).		
	Nr.	Denumire contract	Finanțator
	1	Transfer de Inovatie Leonardo da Vinci 2013-1-ES1-LEO01-66485 One teacher and one student working with ProjectX, Total 370.553 € / Pitești 38.547 €	UE
	2	Cooperation for Innovation and the exchange of good practices 2015-1-TR01-KA203-021342 INNOVATIVE EUROPEAN STUDIES ON RENEWABLE ENERGY SYSTEMS, Total 207.788 € / Pitești 33.713 €	UE
18.	Colaborator la grant / contract de cercetare științifică (conform anexei 3.1)		
	Nr.	Denumire grant/contract	Director/responsabil
	1	Transfer de Inovatie Leonardo da Vinci 2013-1-ES1-LEO01-66485 One teacher and one student working with ProjectX, N. Bizon	Robert Beloiu
	2	Transfer de Inovatie Leonardo da Vinci 2013-1-ES1-LEO01-66485 One teacher and one student working with ProjectX, I. Bostan	Robert Beloiu
19.	Depunerea unui proiect de cercetare științifică internațional eligibil, nefinanțat		
	Nr.	Denumire contract	Finanțator
	1	Innovative Solutions for Electric-Pneumatic L-Category Vehicle Concept H2020-GV	H2020-GV
	2	Immersive learning environment for current and future workforce <i>Submitted as a project proposal within the Technologies for better human learning and teaching ICT-20-2015</i> Plant2Learn Project	UE
	3	Transnational Education Recognition - National Approaches (TER-NA) under the Erasmus+ programme	UE
20	Depunerea unui proiect de cercetare științifică național eligibil, nefinanțat		
	Nr.	Denumire contract	Finanțator
	1		
21.	Brevet omologat		
	Nr.	Autori	Titlul
	1	N. Bizon, G. Iana, M. Oproescu	Device and method for searching the extremes of power photovoltaic panels (Dispozitiv și metodă de căutare a extremelor de putere pentru panourile fotovoltaice),
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Director CCMSPS
Prof.dr.ing. Gheorghe ȘERBAN