

**LISTA DE LUCRĂRI**  
**a cadrului didactic BELOIU ROBERT CRISTIAN**

**A. Teza de doctorat**

*Comanda motoarelor pas cu pas din acționările electrice ale mecanismelor de deplasare*, Doctor inginer; Universitatea Politehnica Bucuresti, Facultatea de Inginerie Electrica; 2003; Inginerie electrica; , Inginerie electrică, 2003

**B. Cărți și capitole în cărți publicate în perioada 2009 - 2018**

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

1. R. Beloiu, M. Iorgulescu, C. Savulescu, *Capitolul 12. Dynamic Response of the Electric Motors in EV/HEV*, pag. 241 - 256 , 15 pag. 3 autori Editori: Nicu Bizon, Lucian Dascalescu, Naser M. Tabatabaei - Autonomous Hybrid Vehicles, Ed. Univ. Pitesti, 2013, ISBN 978-606-560-327-1,, 2013, (TC\_11\_2013\_DECIE)

2. Robert Cristian Beloiu, Mariana Iorgulescu, Corina Savulescu, *Chapter 13. Dynamic Response of Electric Machines for Electric Vehicles/Hybrid Electric Vehicles (EV/HEV)*, Editors: N. Bizon, L. Dascalescu, and N. M. Tabatabaei (Ed.), Autonomous Vehicles: Intelligent Transport Systems and Smart Technologies, Nova Science Publishers Inc., USA, 2014, ISBN: 978-1-63321-324-1, pp.353-378[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=50365&osCsid=](https://www.novapublishers.com/catalog/product_info.php?products_id=50365&osCsid=), 2014, (TC\_11\_2014\_DECIE, TC\_12\_2014\_DECIE)

3. Robert Cristian Beloiu, *Cap. 7: Teaching Control Systems in Electrical Engineering Education Programs*, Editors: Roberta V. Nata, Progress in Education. Volume 37, Nova Science Publishers Inc., USA, 2015, ISBN: 978-1-63483-337-0, pp 113-150[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=55550](https://www.novapublishers.com/catalog/product_info.php?products_id=55550), 2015, (TC\_11\_2015\_DECIE, TC\_12\_2015\_DECIE)

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

1. Robert Cristian Beloiu, *Actionari electrice cu logica cablata. Pornirea motoarelor asincrone trifazate*, Ed. MatrixRom, Bucuresti, 2010, ISBN:978-973-755-602-8, 207 pag.<http://www.matrixrom.ro/romanian/editura/domenii/cuprins.php?cuprins=AE70>, 2010

**B5. Manuale didactice, suport de curs**

1. R. Beloiu, *Note de curs pentru actionari electrice (AE)*, , 2016
2. R. Beloiu, *Note de curs pentru teoria sistemelor si reglaj automat (TSRA)*, , 2016
3. R. Beloiu, *Note de curs pentru sisteme de actionari electrice (SAE)*, , 2016
4. R. Beloiu, *Note de curs pentru robotica industrială (RI)*, , 2016

**B6. Îndrumare de laborator, culegere de probleme**

1. Robert Cristian Beloiu, *Lucrari practice de Actionari Electrice cu Logica Cablata*, Ed. Upit, 2014, e-ISBN: 978-606-560-378-3, 300 pag.[http://tinread.upit.ro/opac/bibliographic\\_view/143196?pn=opac%2FSearch&q=beloiu+robert#level=all&location=0&ob=asc&q=beloiu+robert&sb=relevance&start=0&view=CONTENT](http://tinread.upit.ro/opac/bibliographic_view/143196?pn=opac%2FSearch&q=beloiu+robert#level=all&location=0&ob=asc&q=beloiu+robert&sb=relevance&start=0&view=CONTENT), 2014

2. Robert Cristian Beloiu, *Lucrari practice de Sisteme de Actionari Electrice*, Ed. Upit, 2016, ISBN 978-606-560-464-3, 110 pag. [www.upit.ro](http://www.upit.ro), 2016

3. Robert Cristian Beloiu, *Lucrari practice de Robotica Industrială*, Ed. Upit, 2016, ISBN 978-606-560-483-4, 163 pag. [www.upit.ro](http://www.upit.ro), 2016

**C. Lucrări (articole) ISI / BDI publicate în perioada 2009 - 2018**

**C2. Articole în volume indexate ISI Proceedings**

1. Mariana Iorgulescu, Robert Cristian Beloiu, Dumitru Cazacu., *Vibration monitoring for electrical equipment faults detection using Fast Fourier Transform*, 1st International Conference on Manufacturing Engineering, Quality and Production Systems Location: Transilvania Univ Brasov, Brasov, ROMANIA, Date: SEP 24-26, 2009 ADVANCES IN MANUFACTURING ENGINEERING, QUALITY AND SYSTEMS, VOL. 1, Book  
Series: [http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full\\_record.do?product=WOS&search\\_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=6&cacheurlFromRightClick=no](http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=6&cacheurlFromRightClick=no), 2009, (TC\_\_DAT)
2. Mariana Iorgulescu, Robert Cristian Beloiu, Mihai Octavian Popescu, *Rotor bars diagnosis in single phase induction motors based on the vibration and current spectrum analysis*, 12th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 20-21, 2010 Sponsor(s): IEEE, IAS; IEEE, PELS; IEEE, IESOPTIM 2010: PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE  
ON [http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full\\_record.do?product=WOS&search\\_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=4&cacheurlFromRightClick=no](http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=4&cacheurlFromRightClick=no), 2010, (TC\_\_DAT)
3. Mariana Iorgulescu, Robert Cristian Beloiu, Mihai Octavian Popescu, *Vibration monitoring for diagnosis of electrical equipment's faults*, 12th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 20-21, 2010 Sponsor(s): IEEE, IAS; IEEE, PELS; IEEE, IESOPTIM 2010: PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE  
ON [http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full\\_record.do?product=WOS&search\\_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=5&cacheurlFromRightClick=no](http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=5&cacheurlFromRightClick=no), 2010, (TC\_\_DAT)
4. Mariana Iorgulescu, Robert Cristian Beloiu, *Study of DC Motor Diagnosis Based on the Vibration Spectrum and Current Analysis*, Applied and Theoretical Electricity (ICATE), 2012 International Conference on Date of Conference: 25-27 Oct. 2012 Author(s): Page(s): 1 - 4 Product Type: Conference Publications Conference Location : Craiova, Romania Print ISBN: 978-1-4673-1809-9 Digital  
Obj [http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full\\_record.do?product=WOS&search\\_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=3&cacheurlFromRightClick=no](http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=3&cacheurlFromRightClick=no), 2012, (TC\_11\_2012\_DECIE, TC\_12\_2012\_DECIE)
5. Iorgulescu, M., Alexandru, M., Beloiu, R. , *Noise and vibration monitoring for diagnosis of DC motor's faults*, 13 th international Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2012, Brasov ,On page(s): 724 Conference Location : Brasov ISSN : 1842-0133E-ISBN : 978-1-4673-1652-Print ISBN: 978-1-4673-1650-7 INSPEC Accession Number: 12849342 [http://ieeexplore.ieee.org.ux4ll8xu6v.useaccesscontrol.com/xpl/articleDetails.jsp?tp=&arnumber=6231919&searchWithin%3Dp\\_Authors%3A.QT.Beloiu%2C+R..QT.%26sortType%3Dasc\\_p\\_Publication\\_Year](http://ieeexplore.ieee.org.ux4ll8xu6v.useaccesscontrol.com/xpl/articleDetails.jsp?tp=&arnumber=6231919&searchWithin%3Dp_Authors%3A.QT.Beloiu%2C+R..QT.%26sortType%3Dasc_p_Publication_Year), 2012, (TC\_11\_2012\_DECIE, TC\_12\_2012\_DECIE)
6. Robert Cristian Beloiu, *A practical approach for an introductory control engineering course*, Conference: International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Location: Univ Pitesti, Pitesti, ROMANIA Date: JUN 27-29, 2013 Sponsor(s): IEEE Region 8; IEEE Ind Applicat Soc; IEEE Romania Sect; Univ Pitesti, Fac Elect  
Comm [http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full\\_record.do?product=WOS&search\\_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=2&cacheurlFromRightClick=no](http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=2&cacheurlFromRightClick=no), 2013, (TC\_11\_2013\_DECIE, TC\_12\_2013\_DECIE)
7. Mariana Iorgulescu, Robert Cristian Beloiu, *Faults diagnosis for electrical machines based on analysis of motor current*, International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) Location: ROMANIA Date: MAY 22-24, 2014 Sponsor(s): IEEE Ind Elect Soc; IEEE Ind Applicat Soc; IEEE Power Elect Soc; Transilvania Univ Brasov 2014 INTERNATIONAL CONFERENCE [http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full\\_record.do?product=WOS&search\\_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=1&cacheurlFromRightClick=no](http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=Analyze&qid=5&SID=1BEPfbVQXz4IrRliZOj&page=1&doc=1&cacheurlFromRightClick=no), 2014, (TC\_11\_2014\_DECIE, TC\_12\_2014\_DECIE)
8. R. Beloiu, I. Bostan, M. Iorgulescu, *Internationalization of educational programs through European projects*, The 6th International Conference Edu World 2014 "Education Facing Contemporary World Issues", 7th - 9th November 2014;

<http://www.eduworld.ro/index.php?page=participants2014><http://www.sciencedirect.com/science/article/pii/S1877042815015396>, 2014, (TC\_11\_2014\_DECIE, TC\_12\_2014\_DECIE)

9. I. Bostan, R. Beloiu, N. Bizon, *Learning digital frequency dividers through practical laboratory activities*, The 6th International Conference Edu World 2014 “Education Facing Contemporary World Issues”, 7th - 9th November 2014:

<http://www.eduworld.ro/index.php?page=participants2014><http://www.sciencedirect.com/science/article/pii/S187704281503058X>, 2014, (TC\_11\_2014\_DECIE, TC\_12\_2014\_DECIE)

10. R. Beloiu, *Teaching induction machine laboratory using ProjectX*, 4th WORLD CONFERENCE ON EDUCATIONAL TECHNOLOGY RESEARCHES, WCETR-2014<http://www.sciencedirect.com/science/article/pii/S187704281503058X>, 2014, (TC\_11\_2014\_DECIE, TC\_12\_2014\_DECIE)

11. R. Beloiu, *Dynamic determination of DC motor parameters – simulation and testing*, Proceedings of the International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-

2014[http://scholar.google.ro/citations?view\\_op=view\\_citation&hl=ro&user=jrrPvH8AAAAJ&sortby=pubdate&imq=Robert+Beloiu&citation\\_for\\_view=jrrPvH8AAAAJ:\\_kc\\_bZDykSQc](http://scholar.google.ro/citations?view_op=view_citation&hl=ro&user=jrrPvH8AAAAJ&sortby=pubdate&imq=Robert+Beloiu&citation_for_view=jrrPvH8AAAAJ:_kc_bZDykSQc), 2014, (TC\_11\_2014\_DECIE, TC\_12\_2014\_DECIE)

12. R. Beloiu, I. Bostan, M. Iorgulescu, *Dynamic electronic model for a DC motor - simulation and experimental validation*, Proceedings of the International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-

2014[http://scholar.google.ro/citations?view\\_op=view\\_citation&hl=ro&imq=Robert+Beloiu&citation\\_for\\_view=jrrPvH8AAAAJ:4TOpqqG69KYC&gmla=AJsN-F7TyHbuYOFaOW4DsVlXyJKWPqAxBPRpsJNsp9gme2BauIYeaH3xoh\\_jh3754oimyKZEVyPzu8uSrw5dbrHtMdte3hAnN9f6bXDdbgQE9qV5L3a9fgGG\\_biBbm](http://scholar.google.ro/citations?view_op=view_citation&hl=ro&imq=Robert+Beloiu&citation_for_view=jrrPvH8AAAAJ:4TOpqqG69KYC&gmla=AJsN-F7TyHbuYOFaOW4DsVlXyJKWPqAxBPRpsJNsp9gme2BauIYeaH3xoh_jh3754oimyKZEVyPzu8uSrw5dbrHtMdte3hAnN9f6bXDdbgQE9qV5L3a9fgGG_biBbm), 2014, (TC\_11\_2014\_DECIE, TC\_12\_2014\_DECIE)

13. Robert Cristian Beloiu, *Hands-on solutions for teaching basic introductory control systems course*, Advanced Topics in Electrical Engineering (ATEE), 2015 9th International Symposium on[http://apps.webofknowledge.com.am.enformation.ro/full\\_record.do?product=UA&search\\_mode=GeneralSearch&qid=12&SID=Y2jU6bcQLg32ZDmghtM&page=1&doc=1](http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&search_mode=GeneralSearch&qid=12&SID=Y2jU6bcQLg32ZDmghtM&page=1&doc=1), 2015, (TC\_11\_2015\_DECIE, TC\_12\_2015\_DECIE)

14. Robert Cristian Beloiu, *Hands-on" Electronic Simulators for Electric Drive Systems*, Proceedings of the 10th International Conference on Virtual Learning, ISSN 1844-8933, Bucharest Bucharest University Press, ISSN: 1844-8933, Bucharest, 2015, pag. 179-185, 2015, (TC\_11\_2015\_DECIE, TC\_12\_2015\_DECIE)

15. Robert Cristian Beloiu, *Teaching electric motors' starting methods in Lifelong Learning Programs*, Conference: 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Location: Bucharest, ROMANIA Date: JUN 25-27, 2015 Sponsor(s): IEEE Romania section; IEEE Industry Applications Society; Univ Pitesti; Univ Europei Sud Est Lumina; Ministerul Educatiei Cercetarii Stiintifice PROCEEDINGS OF THE 2015 7TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI) Book Series: International Conference on Electronics Computers and Artificial Intelligence Pages: WE11-WE14 Published: 2015 10.1109/ECAI.2015.7301223[http://apps.webofknowledge.com.am.enformation.ro/full\\_record.do?product=UA&search\\_mode=GeneralSearch&qid=5&SID=2FgsYNHACK1IE3DjntU&page=1&doc=1&cacheurlFromRightClick=no](http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&search_mode=GeneralSearch&qid=5&SID=2FgsYNHACK1IE3DjntU&page=1&doc=1&cacheurlFromRightClick=no), 2015, (TC\_11\_2015\_DECIE, TC\_12\_2015\_DECIE)

16. Paturca, SV (Paturca, Sanda Victorinne); Petre, D (Petre, Daniel); Dumitrescu, AM (Dumitrescu, Ana Maria); Bostan, V (Bostan, Valeriu); Bostan, I (Bostan, Ionel); Beloiu, R (Beloiu, Robert), *A robotics laboratory for bio-engineering students*, Title: A robotics laboratory for bio-engineering students Author(s): Paturca, SV (Paturca, Sanda Victorinne); Petre, D (Petre, Daniel); Dumitrescu, AM (Dumitrescu, Ana Maria); Bostan, V (Bostan, Valeriu); Bostan, I (Bostan, Ionel); Beloiu, R (Beloiu, Robert) Source: JOURNAL OF BIOTECHNOLOGY Volume: 256 Pages: S57-S57 DOI: 10.1016/j.jbiotec.2017.06.991 Supplement: S Published: AUG 30 2017 Times Cited in Web of Science Core Collection: 0 Total Times Cited: 0 Usage Count (Last 180 days): 0 Usage Count (Since 2013): 0 Cited Reference Count: 0 Accession Number: WOS:000413585400176 Language: English Document Type: Meeting Abstract Conference Title: European Biotechnology Congress Conference Date: MAY 25-27, 2017 Conference Location: Dubrovnik, CROATIA Addresses: [Paturca, Sanda Victorinne; Petre, Daniel; Dumitrescu, Ana Maria; Bostan, Valeriu]

Univ Politehn Bucuresti, Fac Elect Engn, Bucharest, Romania.[Bostan, Ionel; Beloiu, Robert] Univ Pitesti, Fac Elect Commun & Comp, Pitesti, Romania.E-mail Addresses: petregeorgedaniel@gmail.comPublisher: ELSEVIER SCIENCE BVPublisher Address: PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDSWeb of Science Categories: Biotechnology & Applied MicrobiologyResearch Areas: Biotechnology & Applied MicrobiologyIDS Number: FK6ANISSN: 0168-1656eISSN: 1873-486329-char Source Abbrev.: J BIOTECHNOLISO Source Abbrev.: J. Biotechnol.Source Item Page Count: 1Output Date: 2018-01-30, 2017, (TC\_19\_2017\_DECIE)

17. Andrei, H (Andrei, Horia); Andrei, PC (Andrei, Paul Cristian); Constantinescu, LM (Constantinescu, Luminita M.); Beloiu, R (Beloiu, Robert); Cazacu, E (Cazacu, Emil); Stanculescu, M (Stanculescu, Marilena), *Reactive Power Control in AC Power Systems, Cap.1, Electrical Power Systems*, Title: Electrical Power SystemsAuthor(s): Andrei, H (Andrei, Horia); Andrei, PC (Andrei, Paul Cristian); Constantinescu, LM (Constantinescu, Luminita M.); Beloiu, R (Beloiu, Robert); Cazacu, E (Cazacu, Emil); Stanculescu, M (Stanculescu, Marilena)Edited by: Tabatabaei NM; Aghbolaghi AJ; Bizon N; Blaabjerg FSOURCE: REACTIVE POWER CONTROL IN AC POWER SYSTEMS: FUNDAMENTALS AND CURRENT ISSUES Book Series: Power Systems Pages: 3-47 DOI:0.1007/978-3-319-51118-4\_1 Published: 2017Accession Number: WOS:000418032900003IDS Number: BJ1TUISSN: 1612-1287ISBN: 978-3-319-51118-4; 978-3-319-51117-729-char Source Abbrev.: POWER SYSTSource Item Page Count: 45Book DOI: 10.1007/978-3-319-51118-4Output Date: 2018-01-30, 2017, (TC\_18\_2017\_DECIE)

18. Robert Beloiu, *Virtual solutions for industrial automation education*, <http://c3.icvl.eu/2018/proceedings>SI Web of Sciences (Thomson Reuters): ICVL Proceedings of the 10th International Conference on Virtual LearningBook Series: Proceedings of the International Conference on Virtual learning;Edited by: Vlada, M; Albeanu, G; Adascalitei, A; Popovici, M; Accession Number: WOS:000380576300002; ISSN: 1844-8933Categories / Classification: Research Areas:Computer Science; Education & Educational ResearchWeb of Science Categories:Computer Science, Interdisciplinary Applications; Education & Educational Research, 2018, (TC\_18\_2018\_DECIE)

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

1. Robert Beloiu, Mariana Iorgulescu, *Set up of Brushless Control Drivers in Hybrid Electric Vehicle*, Proceedings of the International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-

2011[http://scholar.google.ro/citations?view\\_op=view\\_citation&hl=ro&user=jrrPvH8AAAAAJ&sortby=pubdate&imq=Robert+Beloiu&citation\\_for\\_view=jrrPvH8AAAAAJ:LkGwnXOMwfcC](http://scholar.google.ro/citations?view_op=view_citation&hl=ro&user=jrrPvH8AAAAAJ&sortby=pubdate&imq=Robert+Beloiu&citation_for_view=jrrPvH8AAAAAJ:LkGwnXOMwfcC), 2011

2. R. Beloiu, M. Iorgulescu, *AUTOMATED COUPLING OF A SYNCHRONOUS GENERATOR WITH ELECTRICAL SYSTEM GRID*, 7th International Conference on “Technical and Physical Problems of Power Engineering” (ICTPE-2011), 7-9 July 2011, Near East University, Lefkosa, TR Northern Cyprus, Paper Number 23, Code 02EPE11, Pages 108-110,

2011[https://scholar.google.com/citations?hl=en&user=gfWxEhEAAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=gfWxEhEAAAAAJ&view_op=list_works&sortby=pubdate), 2011

3. Mariana Iorgulescu, Robert Beloiu, *Noise Monitoring For Fault’s Diagnosis of Electrical Machines*, Proceedings of the International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-

2012[http://scholar.google.ro/citations?view\\_op=view\\_citation&hl=ro&user=jrrPvH8AAAAAJ&sortby=pubdate&imq=Robert+Beloiu&citation\\_for\\_view=jrrPvH8AAAAAJ:\\_FxGoFyzp5QC](http://scholar.google.ro/citations?view_op=view_citation&hl=ro&user=jrrPvH8AAAAAJ&sortby=pubdate&imq=Robert+Beloiu&citation_for_view=jrrPvH8AAAAAJ:_FxGoFyzp5QC), 2012, (TC\_11\_2012\_DECIE, TC\_12\_2012\_DECIE)

4. Robert Beloiu1, *PLC - modern programming environment*, The 12th International Conference on Virtual Learning VIRTUAL LEARNING – VIRTUAL REALITY Phase II - Period 2010-2020: e-Skills for the 21st Century Phase III - Period 2020-2030: Intelligence Learning – Knowledge Society and Learning Culture[www.icvl.eu](http://www.icvl.eu) | [www.cniv.ro](http://www.cniv.ro) The ICV and CNIV projects supports Digital Agenda-Europe 2020ISSN: 1844-8933 - ISI Proceedings, accessed via Web of Science, since year 2006ICVL 2017 dedicated acad. O. ONICESCU and acad. Gh. MIHOC, Romanian School of probabilities and mathematical statisticsICVL and CNIV Coordinator: PhD. Marin Vlada, University of BucharestThe printing of Proceedings was sponsored by the Romanian Ministry of Research and Innovation, EUROPE - ROMANIAProceedings of ICVL (Print ISSN 1844 - 8933) - Cite papers from and search for "The International Conference on Virtual Learning" in Conference Proceedings Citation Index (ISI Proceedings, accessed via Web of Science). Categories /

Classification Research Domains: COMPUTER SCIENCE: SCIENCE TECHNOLOGY; SOCIAL SCIENCES Research Areas: Computer Science; Education & Educational Research Web of Science Categories: Computer Science, Interdisciplinary Applications; Education & Educational Research Language: English, ISSN: 1844-8933 Publisher: BUCHAREST UNIVERSITY PRESS, BUCHAREST, ROMANIA, 2017, (TC\_18\_2017\_DECIE)

5. R. Beloiu<sup>1</sup>, M. Cervantes<sup>2</sup>, I. Ferrer Ballester<sup>3</sup>, *PROJECTX - A TOOL TO PROMOTE STUDENT MOBILITY*, <https://library.iated.org/view/BELOIU2017PRO> Appears in: EDULEARN17 Proceedings (browse) Pages: 8188-8196 Publication year: 2017 ISBN: 978-84-697-3777-4 ISSN: 2340-1117 doi:10.21125/edulearn.2017.0513 Conference name: 9th International Conference on Education and New Learning Technologies Dates: 3-5 July, 2017 Location: Barcelona, Spain, 2017, (TC\_18\_2017\_DECIE)

6. Nicu Bizon<sup>1</sup>, Mihai Culcer<sup>2</sup>, Mariana Iliescu<sup>2</sup>, Alin Mazare<sup>1</sup>, Ionescu Laurentiu<sup>1</sup>, Robert Beloiu<sup>1</sup>, *Real-time strategy to optimize the Fuel Flow rate of Fuel Cell Hybrid Power Source under variable load cycle*, Abstract: A real-time optimization (RTO) strategy for the Fuel Cell Hybrid Power Sources (FCHPS) is proposed in this paper. The optimization strategy is based on the Global Extremum Seeking (GES) search of the optimal value of the fuel flow rate of the FC stack. The airflow rate is controlled by the FC current as in the Static Feed-Forward (sFF) RTO strategy, where both fueling flow rates are controlled by the FC current. The performance of the proposed Fuel\_GES-RTO strategy is shown in comparison with the sFF-RTO strategy for constant and variable load. In the last case, a Load-Following (LF) control of the boost converter is used for both strategies. 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: 17415506 DOI: 10.1109/ECAI.2017.8166513 Publisher: IEEE Conference Location: Targoviste, Romania, 2017, (TC\_18\_2017\_DECIE)

7. R. Beloiu, *Control Systems Theory - every bachelor student should have a deep knowledge of everything?*, The 12th International Conference on Virtual Learning VIRTUAL LEARNING – VIRTUAL REALITY Phase II - Period 2010-2020: e-Skills for the 21st Century Phase III - Period 2020-2030: Intelligence Learning – Knowledge Society and Learning Culture [www.icvl.eu](http://www.icvl.eu) | [www.cniv.ro](http://www.cniv.ro) The ICV and CNIV projects supports Digital Agenda-Europe 2020 ISSN: 1844-8933 - ISI Proceedings, accessed via Web of Science, since year 2006 ICVL 2017 dedicated acad. O. ONICESCU and acad. Gh. MIHOC, Romanian School of probabilities and mathematical statistics ICVL and CNIV Coordinator: PhD. Marin Vlada, University of Bucharest The printing of Proceedings was sponsored by the Romanian Ministry of Research and Innovation, EUROPE - ROMANIA Proceedings of ICVL (Print ISSN 1844 - 8933) - Cite papers from and search for "The International Conference on Virtual Learning" in Conference Proceedings Citation Index (ISI Proceedings, accessed via Web of Science). Categories / Classification Research Domains: COMPUTER SCIENCE: SCIENCE TECHNOLOGY; SOCIAL SCIENCES Research Areas: Computer Science; Education & Educational Research Web of Science Categories: Computer Science, Interdisciplinary Applications; Education & Educational Research Language: English, ISSN: 1844-8933 Publisher: BUCHAREST UNIVERSITY PRESS, BUCHAREST, ROMANIA, 2017, (TC\_18\_2017\_DECIE)

8. Sanda Victorinne Paturca, Daniel George Petre, Cosmin Banica, Ana Maria Dumitrescu, George Seritan, Valeriu Bostan, Ionel Bostan, Sorin Grigorescu, Robert Beloiu, *Telerobots development in bio-engineering curricula—a creative design approach*, [https://scholar.google.ro/citations?hl=ro&user=jrrPvH8AAAAJ&view\\_op=list\\_works&sortBy=pubdate#d=g\\_s\\_md\\_cita-d&u=%2Fcitations%3Fview\\_op%3Dview\\_citation%26hl%3Dro%26user%3DjrrPvH8AAAAJ%26sortBy%3Dpubdate%26citation\\_for\\_view%3DjrrPvH8AAAAJ%3A7PzIFSSx8tAC%26tzom%3D-120](https://scholar.google.ro/citations?hl=ro&user=jrrPvH8AAAAJ&view_op=list_works&sortBy=pubdate#d=g_s_md_cita-d&u=%2Fcitations%3Fview_op%3Dview_citation%26hl%3Dro%26user%3DjrrPvH8AAAAJ%26sortBy%3Dpubdate%26citation_for_view%3DjrrPvH8AAAAJ%3A7PzIFSSx8tAC%26tzom%3D-120) Authors Sanda Victorinne Paturca, Daniel George Petre, Cosmin Banica, Ana Maria Dumitrescu, George Seritan, Valeriu Bostan, Ionel Bostan, Sorin Grigorescu, Robert Beloiu Publication date 2018/1/1 Journal Journal of Biotechnology Volume 280 Issue 1 Pages S45-S46 Publisher Elsevier <https://www.sciencedirect.com/science/article/pii/S0168165618303225>, 2018, (TC\_18\_2018\_DECIE)

**Data: 05.02.2019**

**Cadrul didactic BELOIU ROBERT CRISTIAN**

*Semnătura*