UNIVERSITATEA din Piteşti **Anexa 5.b**
Facultatea de Electronica, Comunicatii si Calculatoare
Departamentul de Electronica, Calculatoare si Inginerie Electrica

LISTA DE LUCRĂRI
a cadrului didactic OPROESCU MIHAI

A. Teza de doctorat

Modelarea şi optimizarea fluxurilor de putere din sisteme invertor alimentate de la pile de combustie, , Inginerie electronică, telecomunicații și tehnologii informaționale, 2011

Modelarea şi optimizarea fluxurilor de putere din sisteme invertor alimentate de la pile de combustie, , Inginerie electronică, telecomunicații și tehnologii informaționale, 2011

B. Cărţi şi capitole în cărţi publicate în perioada 1975 - 2019

B1. Cărţi şi capitole în cărţi de specialitate internaţionale ca autor (cu ISBN extern)

1. Nicu Bizon,M.Oproescu,F.Fattahi, N.M.Tabatabaei,H.S.Abbasi, *Chapter 12. Modelling of Energy Generation Systems – A Brief Overview of used models,* In N. Bizon (Ed.), 2012, Advances in Energy Research: Distributed Generation systems integrating Renewable Energy Resources, Nova Science Publishers Inc., USA, 978-1-61209-991-0 (hardcover), 978-1-61209-991-2 (ebook). 692 pages, 2012, (TC_12_2012_DECIE)
2. Nicu Bizon,Mihai Oproescu, *Chapter 9. Techniques to Mitigate the Fuel Cell Current Ripple,* In N. Bizon (Ed.), 2012, Advances in Energy Research: Distributed Generation systems integrating Renewable Energy Resources, Nova Science Publishers Inc., USA, 978-1-61209-991-0 (hardcover), 978-1-61209-991-2 (ebook). 692 pages, 2012, (TC_1_2012_DECIE, TC_5_2012_DECIE)
3. Nicu Bizon,Marian Raducu,Mihai Oproescu, *Chapter 12. Energy Efficiency of the Hybrid Power Source Used in the Plug-In Fuel Cell Vehicles,* Chapter 12. Energy Efficiency of the Hybrid Power Source Used in the Plug-In Fuel Cell Vehicles, pp.313-352 In N. Bizon, L. Dascalescu, and N. M. Tabatabaei (Ed.), 2014, Autonomous Vehicles: Intelligent Transport Systems and Smart Technologies, Nova Science Publishers Inc., USA, ISBN: 978-1-63321-324-1, 541 pages,, 2012, (TC_5_2012_DECIE, TC_11_2012_DECIE)
4. Nicu Bizon,Marian Raducu,Mihai Oproescu, *Chapter 11. PWM Cycloconverter - An Energy Efficient Topology For Fuel Cell Inverter Systems,* In N. Bizon and N. M. Tabatabaei (Ed.), Advances in Energy Research: Energy and Power Engineering, Nova Science Publishers Inc., USA, 2013 978-1-62257-534-3 (hardcover), 978-1-62257-546-6 (ebook). 698 pp, 2013, (TC_1_2013_DECIE, TC_5_2013_DECIE)
5. Nicu Bizon,Mihai Oproescu,Marian Raducu, *Chapter 7. Applications in Control of the Hybrid Power Systems, pp. 227-290,* In N. Bizon, N. M. Tabatabaei and Hossein Shayeghi (Ed.), 2013, Analysis, Control and Optimal Operations in Hybrid Power Systems, Advanced Techniques and Applications for Linear and Nonlinear Systems, Springer Verlag London Limited, London, UK, 978-1-4471-5538-6, 978-1-4471-5537-9 ; 394 pages, 2013, (TC_12_2013_DECIE, TC_1_2013_DECIE)
6. Bizon Nicu; Raducu Marian; Constantinescu Luminita-Mirela; Oproescu Mihai, *Energy Harvesting from the Photovoltaic Hybrid Power Source Based on Extremum Seeking Control Schemes,* ENERGY HARVESTING AND ENERGY EFFICIENCY: TECHNOLOGY, METHODS, AND APPLICATIONS Book Series: Lecture Notes in Energy, Volume: 37,Pages: 143-176, DOI: 10.1007/978-3-319-49875-1_6, Published: 2017, 2017, (TC_5_2017_DECIE)

B2. Cărţi şi capitole în cărţi de specialitate naţionale ca autor (cu ISBN intern)

1. Nicu Bizon,Mihai Oproescu, *Convertoare de Putere utilizate in Sistemele de Generare a Energiei,* 160 pag, Editura Universității din Pitești, Pitești, ISBN 978-973-690-644-2, 2007, (TC_11_2012_DECIE, TC_12_2012_DECIE, TC_11_2012_DECIE, TC_12_2012_DECIE)
2. Nicu Bizon,Mihai Oproescu, *Intelligent Management of the Renewable Energy Resources for assuring the DG System Power Quality and a Sustainable Development,* In Complex Behaviour of the Distributed Generation System, Publishing house of the University of Piteşti, Piteşti, ISBN 978-606-560-

128-4 (hardcover), ISBN 978-606-560-129-1 (e-book), 2010, (TC_1_2012_DECIE, TC_5_2012_DECIE, TC_1_2012_DECIE, TC_5_2012_DECIE)

B5. Manuale didactice, suport de curs

1. Mihai Oproescu, *Consideraţii metodice privind perfecţionarea lecţiilor la disciplinele tehnice de specialitate. Rolul metodelor bazate pe acţiune practică,* , 2013
2. Mihai Oproescu, *Sisteme de intrare - iesire. Note de curs,* , 2016

B6. Îndrumare de laborator, culegere de probleme

1. Mihai Oproescu, *Masurari in electronica si telecomunicatii – Îndrumar de laborator,* , 2013
2. Mihai Oproescu, *Electronica de putere – Indrumar de laborator,* , 2013
3. Mihai Oproescu, *Electronica industriala – Indrumar de laborator,* , 2013
4. Mihai Oproescu, *Bioinformatica – Indrumar de laborator,* , 2013
5. Mihai Oproescu, *Electronica medicala – Indrumar de laborator,* , 2013
6. Mihai Oproescu, *Surse de putere pentru echipamente de comunicatii – Îndrumar de laborator,* , 2014
7. Mihai Oproescu, *Convertoare electronice de putere – Îndrumar de laborator,* , 2014

C. Lucrări (articole) ISI / BDI publicate în perioada 1975 - 2019

C1. Articole în reviste cotate ISI Thomson Reuters

1. Nicu Bizon,Emil Sofron,Mihai Oproescu,Marian Raducu, *Nonlinear control for buck switching power supplies using opto-couplers in the stabilization feedback loop,* Nonlinear control for buck switching power supplies using opto-couplers in the stabilization feedback loop, Optoelectronics and Advanced Materials - Rapid Communications 4(6) (2010) 788 - 794 : Impact Factor: 0.477, 2010
2. Nicu Bizon,Marin Radut,Mihai Oproescu, *Energy control strategies for the Fuel Cell Hybrid Power Source under unknown load profile,* Energy 86 (15 June 2015) 31-41, Impact Factor: 4.292, 2015, (TC_5_2015_DECIE, TC_5_2015_DECIE)
3. Nicu Bizon,Mihai Oproescu,Mircea Raceanu, *Efficient Energy Control Strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source,* Energy Conversion Management 90 (15 January 2015), 93-110, Impact Factor: 4.801, 2015, (TC_5_2015_DECIE, TC_11_2015_DECIE, TC_5_2015_DECIE, TC_11_2015_DECIE)
4. N. Bizon, G. Iana, E. Kurt, P. Thounthong, M. Oproescu, M. Culcer , M. Iliescu, *Air Flow Real-time Optimization Strategy for Fuel Cell Hybrid Power Sources with Fuel Flow Based on Load-following,* Fuel Cell Journal, November 2018,Volume: 18, Issue: 6, Pages: 809-823, DOI: 10.1002/fuce.201700197, Pages 809-823, ISSN: 1615-6846, Online ISSN:1615-6854https://doi.org/10.1002/fuce.201700197https://onlinelibrary.wiley.com/journal/16156854https://www.scijournal.org/impact-factor-of-FUEL-CELLS.shtmlhttps://www.scimagojr.com/journalsearch.php?q=26541&tip=sid&clean=0, 2018, (TC_23_2018_DECIE)
5. Nicu Bizon, Mihai Oproescu, *Experimental Comparison of Three Real-Time Optimization Strategies Applied to Renewable/FC-Based Hybrid Power Systems Based on Load-Following Control,* Journal - Energies 2018, 11, 3537; doi:10.3390/en11123537Received: 19 November 2018; Accepted: 17 December 2018; Published: 19 December 2018,www.mdpi.com/journal/energies, 2018, (TC_23_2018_DECIE)

C2. Articole în volume indexate ISI Proceedings

1. Nicu Bizon,Mihai Oproescu, *Energy generation system behaviour using a clocked fuzzy peak current control,* European Conference on Power Electronics and Applications, pg. 4194-4201, Aalborg, DENMARK, SEP 02-05, 2007, ISBN:978-90-75815-11-5,Web of Science Categories:Energy & Fuels; Engineering, Electrical & ElectronicWOS:000255993602107, 2007
2. Nicu Bizon,Emil Sofron,Mihai Oproescu, *Intelligent control of the power flows into an energy generation system,* 1th World Multi-Conference on Systemics, Cybernetics and Informatics/13th International Conference on Information Systems Analysis and Synthesis, pg. 314-319, Orlando, FL, USA, JUL 08-11, 2007, ISBN:978-1-934272-26-8,Web of Science Categories:Computer Science, Artificial

Intelligence; Computer Science, Information Systems; Energy & Fuels; Engineering, Industrial; Imaging Science & Photographic Technology; Telecommunications,WOS:000254645300060, 2007

3. Nicu Bizon,Mihai Oproescu,Marian Raducu, *Fuel cell current ripple minimization using a bi-buck power interface*, 13TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE, VOL 1-5, pp. 621-628, Poznan, POLAND, DOI: 10.1109/EPEPEMC.2008.4635334, ISBN:978-1-4244-1741-4,Web of Science Categories:Automation & Control Systems; Engineering, Electrical & ElectronicWOS:000262093800097, 2008

4. Nicu Bizon,Mihai Oproescu, Marian Raducu, *Fuzzy bang-bang control of a switching voltage regulator*, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008), pg. 192-197, Cluj Napoca, ROMANIA, DOI: 10.1109/AQTR.2008.4588819, MAY 22-25, 2008, ISBN:978-1-4244-2576-1,Web of Science Categories:Automation & Control Systems; Engineering, Electrical & Electronic; RoboticsWOS:000259080000030, 2008

5. Nicu Bizon,Gabriel Iana,Mihai Oproescu, *Fuzzy Interpolation of the Average Signal Steps*, INTERNATIONAL SYMPOSIUM ON SIGNALS, CIRCUITS AND SYSTEMS, VOLS 1 AND 2, PROCEEDINGS, pp. 213-216, Iasi ROMANIA, JUL 09-10, 2009, ISBN:978-1-4244-3784-9,Web of Science Categories:Engineering, Electrical & ElectronicWOS:000275854200053, 2009

6. Nicu Bizon,Mihai Oproescu,Marian Raducu, *On the Dither Persistence in the Extremum Seeking control Part I: ESC loop based on Band-Pass Filter*, WORLD CONGRESS ON SUSTAINABLE TECHNOLOGIES (WCST-2012), pp. 104-108, London, ENGLAND, NOV 19-20, 2012, ISBN:978-1-908320-09-4Web of Science Categories:Computer Science, Interdisciplinary Applications; Environmental SciencesWOS:000320667000020, 2012, (TC_9_2012_DECIE, TC_5_2012_DECIE, TC_9_2012_DECIE, TC_5_2012_DECIE)

7. Nicu Bizon,Mihai Oproescu,Marian Raducu, *On the dither persistence in the Extremum Seeking control Part II: Signal harmonics' persistence for large filtering pass band*, WORLD CONGRESS ON SUSTAINABLE TECHNOLOGIES (WCST-2012), pp. 109-114, London, ENGLAND, NOV 19-20, 2012, ISBN:978-1-908320-09-4,Web of Science Categories:Computer Science, Interdisciplinary Applications; Environmental SciencesWOS:000320667000021, 2012, (TC_5_2012_DECIE, TC_9_2012_DECIE, TC_5_2012_DECIE, TC_9_2012_DECIE)

8. Nicu Bizon,Mihai Oproescu,Milan Stork, *Fuel Cell Hybrid Power Source for Pulsed Current Loads*, INTERNATIONAL CONFERENCE ON APPLIED ELECTRONICS, pg. 25-28, Pilsen, CZECH REPUBLIC, ISBN:978-80-261-0038-6ISSN: 1803-7232Web of Science Categories:Engineering, Electrical & Electronic; Telecommunications, 2012, (TC_5_2012_DECIE, TC_11_2012_DECIE, TC_5_2012_DECIE, TC_11_2012_DECIE)

9. Niu Bizon,MihaiOproescu,Marian Raducu,Constantinescu Luminita, *On the search speed for the extremum seeking control 2D-schemes. Part I signal processing using orthogonal dither signals*, INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI), JUN 27-29, 2013, Univ Pitesti, Pitesti,Web of Science Categories:Computer Science, Artificial Intelligence; Computer Science, Theory & MethodWOS:000343672500002, 2013, (TC_5_2013_DECIE, TC_5_2013_DECIE)

10. Nicu Bizon, Marian Raducu, Mihai Oproescu, Luminita Mirela Constantinescu, *On the search speed for the extremum seeking control 2D-schemes. Part II - performances estimation*, INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI), JUN 27-29, 2013, ISBN:978-1-4673-4937-6, Univ Pitesti, Pitesti, ROMANIA, ISBN:978-1-4673-4937-6Web of Science Categories:Computer Science, Artificial Intelligence; Computer Science, Theory & MethodsWOS:000343672500003, 2013, (TC_5_2013_DECIE, TC_5_2013_DECIE)

11. Andrei I. Bogdan,Nicu Bizon,Mihai Oproescu, *On the Chaotic and Periodic Behavior of the Power Converter - Part I: The Mathematical Modeling*, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'14, http://ecai.ro/, ISSN – 1843 – 2115, pp. 61-64, 23-25 Oct. 2014, Print ISBN: 978-1-4799-5478-0, DOI:10.1109/ECAI.2014.7090148, 2014, (TC_11_2014_DECIE, TC_12_2014_DECIE, TC_11_2014_DECIE, TC_12_2014_DECIE)

12. Andrei I. Bogdan,Nicu Bizon,Mihai Oproescu,, *On the Chaotic and Periodic Behavior of the Power Converter - Part II: The Simulation Result*, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'14, http://ecai.ro/, ISSN – 1843 – 2115, pp. 65-72, 23-25 Oct. 2014, Print ISBN: 978-1-4799-5478-0, DOI: 10.1109/ECAI.2014.7090149, 2014, (TC_5_2014_DECIE, TC_11_2014_DECIE, TC_5_2014_DECIE, TC_11_2014_DECIE)

13. Nicu Bizon, Marian Raducu, Mihai Oproescu, Luminita Mirela Constantinescu, *Energy efficiency of the PV panels using a MPPT controller with improved search speed: Part II: Simulation results*, 2014 International Conference on Applied Electronics (AE)Date of Conference: 9-10 Sept. 2014Date Added to IEEE Xplore: 19 January 2015ISBN Information: Print ISSN: 1803-7232INSPEC Accession Number: 14866115DOI: 10.1109/AE.2014.7011665, 2014, (TC_2_2014_DECIE, TC_2_2014_DECIE)

14. Nicu Bizon, Marian Raducu, Mihai Oproescu, Luminita Mirela Constantinescu, *Energy efficiency of the PV panels using a MPPT controller with improved search speed: Part I: Modeling of the PV power system under extremum seeking control*, 2014 International Conference on Applied Electronics (AE)Date of Conference: 9-10 Sept. 2014Date Added to IEEE Xplore: 19 January 2015ISBN Information: Print ISSN: 1803-7232INSPEC Accession Number: 14866115DOI: 10.1109/AE.2014.7011665, 2014, (TC_5_2014_DECIE, TC_2_2014_DECIE, TC_5_2014_DECIE, TC_2_2014_DECIE)

15. Radut Marin,Mihai Oproescu, *Multifunctional Integrated Photovoltaic Window with advanced features of Energy Harvesting and Indoor Shading control: Hardware implementation*, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, http://ecai.ro/, ISSN – 1843 – 2115, JUN 25-27, 2015, ISBN:978-1-4673-6647-2ISSN: 2378-7147Web of Science Categories:Computer Science, Artificial Intelligence; Computer Science, Theory & Methods; Engineering, Electrical & ElectronicWOS:000370971100048, 2015, (TC_4_2015_DECIE, TC_9_2015_DECIE, TC_4_2015_DECIE, TC_9_2015_DECIE)

16. Mihai Oproescu,Marian Raducu,Luminita Mirela Constantinescu, *Evaluation of the performance of new Extremum Seeking Control algorithm to locate accurately the peaks on multimodal functions*, ECAI 2016 - International Conference – 8th Edition Electronics, Computers and Artificial Intelligence, 30 June -02 July, 2016, Ploiesti, ROMÂNIA [IEEEXplore] [Scopus], 2016, (TC_2_2016_DECIE, TC_5_2016_DECIE, TC_2_2016_DECIE, TC_5_2016_DECIE)

17. Mirel Stanica,Man Ion,Mihai Opoescu, *The analysis of different frequency for a stepper motor open loop operation*, 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_4_2016_DECIE, TC_5_2016_DECIE, TC_4_2016_DECIE)

18. Laurentiu Mihai Ionescu ; Alin Mazare ; Mihai Oproescu ; Ioan Lita ; Gheorghe Serban ; Belu Nadia, *Electricity consumption measurement system for detecting losses occurring in power transmission networks*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2017 9th International Conference onDate of Conference: 29 June-1 July 2017Date Added to IEEE Xplore: 07 December 2017ISBN Information: INSPEC Accession Number: 17415558DOI: 10.1109/ECAI.2017.8166469Publisher: IEEEConference Location: Targoviste, Romania, 2017, (TC_2_2017_DECIE)

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

20. Nicu Bizon, Marian Raducu, Luminita Constantinescu, Mihai Oproescu, *Energy Harvesting from the Photovoltaic Hybrid Power Source Based on Extremum Seeking Control Schemes*, Lecture Notes in EnergyVolume: 37Pages: 143-176DOI: 10.1007/978-3-319-49875-1_6Published: 2017, 2017, (TC_5_2017_DECIE, TC_1_2017_DECIE, TC_5_2017_DECIE, TC_1_2017_DECIE)

21. Nicu Bizon, Mihai Culcer, Mihai Oproescu, Gabriel Iana, Ionescu Laurentiu, Alin Mazare, Mariana Iliescu, *Real-time strategy to optimize the Airflow rate of Fuel Cell Hybrid Power Source under variable load cycle*, Published in: Applied Electronics (AE), 2017 International Conference onDate of Conference: 5-6 Sept. 2017Date Added to IEEE Xplore: 02 October 2017ISBN Information: INSPEC Accession Number: 17215610DOI: 10.23919/AE.2017.8053577Publisher: IEEEConference Location: Pilsen, Czech Republic, 2017, (TC_5_2017_DECIE)

22. Oproescu Mihai, Nicu Bizon, Gabriel Iana, Florin Birleanu, Ioan Lita, *Optimize of the long-term supply for a detection, vibration monitoring and recognition of the critical infrastructure protection system*, Published in: Applied Electronics (AE), 2017 International Conference onDate of Conference: 5-6 Sept. 2017Date Added to IEEE Xplore: 02 October 2017ISBN Information: INSPEC Accession Number: 17215589DOI: 10.23919/AE.2017.8053603Publisher: IEEEConference Location: Pilsen, Czech Republic, 2017, (TC_2_2017_DECIE)

23. Florin-Marian Birleanu ; Vasile-Gabriel Iana ; Mihai Oproescu ; Silviu Ionita, *Feature extraction for distance-based classification of signal sources*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2017 9th International Conference onDate of Conference: 29 June-1 July 2017Date Added to IEEE Xplore: 07 December 2017ISBN Information: INSPEC Accession Number: 17415597DOI: 10.1109/ECAI.2017.8166433Publisher: IEEEConference Location: Targoviste, Romania, 2017, (TC_2_2017_DECIE)

24. Sisman George Robert ; Nicu Bizon ; Mihai Oproescu, *Predictive maintenance of electronics systems based on analysis with thermographic camera and fuzzy graphs*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2017 9th International Conference onDate of Conference: 29 June-1 July 2017Date Added to IEEE Xplore: 07 December 2017ISBN Information: INSPEC Accession Number: 17398109DOI: 10.1109/ECAI.2017.8166410Publisher: IEEEConference Location: Targoviste, Romania, 2017, (TC_5_2017_DECIE)

25. M. Jamma ; A. Bennassar ; M. Akherraz ; C. Fahassa ; M. Barara ; M. Oproescu, *Self-tuning fuzzy PI dc-bus voltage controller and fuzzy switching sequences selection for direct power control of PWM AC/DC converter*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2017 9th International Conference onDate of Conference: 29 June-1 July 2017Date Added to IEEE Xplore: 07 December 2017ISBN Information: INSPEC Accession Number: 17415561DOI: 10.1109/ECAI.2017.8166498Publisher: IEEEConference Location: Targoviste, Romania, 2017, (TC_5_2017_DECIE)

26. Stănică Dorin-Mirel ; Ioan Lita ; Mihai Oproescu, *Comparative analysis of stepper motors in open loop and closed loop used in nuclear engineering*, Published in: Design and Technology in Electronic Packaging (SIITME), 2017 IEEE 23rd International Symposium forDate of Conference: 26-29 Oct. 2017Date Added to IEEE Xplore: 18 January 2018ISBN Information: DOI: 10.1109/SIITME.2017.8259924Publisher: IEEEConference Location: Constanta, Romania, Romania, 2017, (TC_4_2017_DECIE)

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

C3. Articole în reviste şi volumele unor manifestări ştiinţifice indexate în alte baze de date internaţionale

1. Nicu Bizon, mihai Oproescu, *Hysteretic fuzzy control of the boost converter*, International Conference Second Edition - Electronics, Computers and Artificial Intelligence - ECAI'05, nr. 1/2005,Piteşti, ISSN 1843–2115, 2005

2. Bizon Nicu, Sofron Emil, Mihai Oproescu, *Some Aspects of the PEMFC–Battery Interface Simulation in Automotive Applications*, Proceedings of int. conf. CAR, 2005, 2005, (TC_2_2014_DECIE, TC_2_2014_DECIE)

3. Nicu Bizon,Mihai Oproescu, *Hysteretic Fuzzy Control of the Power Interface Converter*, Fuzzy Systems and AI journal-Reports and Letters, ed. by Publishing House of the Romanian Academy, Vol. 10, Nr. 3, pg. 139-158, 2005, (TC_5_2014_DECIE, TC_5_2014_DECIE)

4. Bizon Nicu, Sofron Emil, mihai Oproescu, *An Investigations into the Fast-and Slow–Scale Instabilities of an Energy Generation System with a Fuzzy Hysteretic Control*, Advances in Intelligent Systems and Technologies Proceedings ECIT2006–4th European Conference on Intelligent Systems and Technologies Iasi, Romania, Septembrie, pg. 21-23, 2006, (TC_11_2014_DECIE, TC_5_2014_DECIE, TC_11_2014_DECIE, TC_5_2014_DECIE)

5. Bizon Nicu, Sofron Emil, Tutănescu Ion, Mihai Oproescu, *Power Factor Corection Using A Bi-Boost Converter For Ouput Power Flow*, Proceedings of Int. conf. Technologies and Power Electronics (TPE06), pg. 436-444, 2006, (TC_2_2014_DECIE, TC_2_2014_DECIE)

6. Nicu Bizon, Emil Sofron, Mihai Oproescu,, *Power Factor Correction using a Mixed Control Technique*, Proceedings of .Int. Symposium on Electrical and Electronics Engineering ISEEE06, pp. 36-39, ed. by University "Dunarea de Jos", 2006, (TC_2_2015_DECIE, TC_2_2015_DECIE)

7. Nicu Bizon, Emil Sofron, Mihai Oproescu, *Unity power factor correction using the bi-boost topology with a forward control technique*, Proceedings of Int. conf. on Development and Applications Systems (DAS'06), pp. 107-113, Suceava, 2006, (TC_2_2014_DECIE, TC_2_2014_DECIE)

8. Nicu Bizon, Mihai Oproescu, *Modeling and Control of the PEMFC Power Interface*, Int. conf. Progress in cryogenics and isotopes separation, Proceedings of Int. conf. Progress in cryogenics and isotopes separation, pp. 155-168, ed. by ICSI, Ramnicu Valcea, 2006

9. Nicu Bizon, Mihai Oproescu, *Control of the DC-DC Converter used into Energy Generation System*, Int. conf. Progress in cryogenics and isotopes separation, Proceedings of Int. conf. Progress in cryogenics and isotopes separation, pp. 173-177, ed. by ICSI, Ramnicu Valcea, 2006

10. Nicu bizon, Mihai Oproescu, *Instabilities Analysis of an Energy Generation System with a Fuzzy Hysteretic Control*, Fuzzy Systems and AI" journal,(in press), Editors: HN Teodorescu sa, Published by the Romanian Academy, 2007, (TC_5_2015_DECIE, TC_5_2015_DECIE)

11. Nicu Bizon, Alin Mazare, Laurentiu Ionescu, Mihai Oproescu, Marian Raducu, *Fuzzy control of the DC-DC converter used as power interface for a fuel cell*, The 13th International ICIT Conference Progress in Cryogenics and Isotopes Separation. Proceedings, Volume 39, Issue 45, 2007

12. Mihai Oproescu, Nicu Bizon, *Some Aspect Concerning the Fuel Cell Current Ripple as Interaction With An Inverter System*, Second Edition - International Conference Electronics, Computers and Artificial Intelligence - ECAI'07, 2007

13. Mihai Oproescu, Nicu Bizon, Ionescu Laurentiu, Alin Mazare, *Analyze of the Feed-Forward Control for a Pure Sine Inverter*, Second Edition - International Conference Electronics, Computers and Artificial Intelligence - ECAI'07 pg 71-79, 2007

14. Alin Mazare, Nicu Bizon, Mihai Oproescu, Ionescu Laurentiu, *Ultracapacitors Tester with PC Interface*, Second Edition - International Conference Electronics, Computers and Artificial Intelligence - ECAI'07Vol 1Nr. 2pg. 133-146, 2007

15. Marian Raducu, Nicu Bizon, Alin Mazare, Ionescu Laurentiu, Mihai Oproescu, *Some Designing Aspects of 1kw Inverter System: DC- DC Converter*, Second Edition - International Conference Electronics, Computers and Artificial Intelligence - ECAI'07Vol 1Nr. 2pg. 147-156, 2007

16. Marian Raducu, Nicu Bizon, Alin Mazare, Ionescu Laurentiu, Mihai Oproescu, *Some Designing Aspects of 1kW Inverter System: DC- AC Converter*, Second Edition - International Conference Electronics, Computers and Artificial Intelligence - ECAI'07Vol 1Nr. 2pg. 157-169, 2007

17. Mihai Oproescu, Vasile V.N. Obreja, Emil Sofron, Dumitru Scheianu, Marian Raducu, Nicu Bizon, Ion Lita, *Supercapacitors :Manufacturing Technology, Performance and Applications*, Second Edition - International Conference Electronics, Computers and Artificial Intelligence - ECAI'07Vol 1Nr. 2pg. 169-179, 2007

18. Nicu Bizon, Emilian Lefter, Mihai Oproescu, *Modeling and Control of the energy sources power interface for automotive hybrid electrical system*, 21st JUMV international automotive Conference on science and motor vehicles, paper NMV0752Volume 12, 2007, (TC_5_2014_DECIE, TC_5_2014_DECIE)

19. Nicu Bizon, Emil Sofron, Mihai Oproescu, Marian Raducu, *Multi-stage Inverter Topologies for an Energy Generation Systems*, 13th International Symposium on Modeling, Simulation and System's Identification, SIMSIS 2007, Galati, Romania, 2007, (TC_11_2014_DECIE, TC_11_2014_DECIE)

20. Nicu Bizon, Emil Sofron, Marian Raducu, Mihai Oproescu, *Low Frequency PEMFC Current Ripple Compensation using a Controlled Buck Current Source*, 4th International Conference on Technical and Physical Problems of Power Engineering TPE-2008 , 2008, (TC_5_2015_DECIE, TC_4_2015_DECIE, TC_5_2015_DECIE, TC_4_2015_DECIE)

21. Nicu Bizon, Mihai Oproescu,, *Modelling the Bi-Buck Interface for Inverter Current Ripple Compensation*, International Journals on Technical and Physical Problems of Engineering (IJTPE, ISSN 2077-3528), TPEJournal-Autumn2009 1(1) 32-37, www.iotpe.com/TPE-Journal/.../IJTPE-Dec2009-No1-Vol1-Pg32-37.pdf, 2009, (TC_2_2016_DECIE, TC_5_2016_DECIE, TC_2_2016_DECIE, TC_5_2016_DECIE)

22. Nicu Bizon, Emil Sofron, Mihai Oproescu, *Filtering Techniques of the Inverter Input Current Ripple*, University of Pitesti Scientific Bulletin, Series: "Electronics and Computer Science", ISSN-1453-1119 (B+), 9(1), pp. 74-79, 2009, 2009, (TC_5_2013_DECIE, TC_11_2013_DECIE, TC_5_2013_DECIE, TC_11_2013_DECIE)

23. Emil Sofron, Mihai Oproescu, Nicu Bizon, *Efficiency of Current Ripple Passive Filtering Techniques for Inverter System Supplied by A Fuel Cell - Modeling and Simulations,* Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'09Vol. 1, Nr. 2, pg. 61-66, 2009

24. Emil Sofron, Mihai Oproescu, Nicu Bizon, *Efficiency of Current Ripple Passive Filtering Techniques for Inverter System Supplied by A Fuel Cell - Experimental Results,* Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'09Vol. 1, Nr. 2, pg. 67-74, 2009

25. Adrian Zafiu, Nicu Bizon, Constantin Ghita, Mihai Oproescu, *A Detailed Model for PV Simulation and MPP Tracking with Tree Points,* Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'09Vol. 1, Nr. 1, pg. 148-154, 2009

26. Nicu Bizon, Mihai Oproescu, *Fuzzy averaging method for extraction of signal drowned in noise,* Fourth International Conference on Intelligent Computing and Information Systems (ICICIS 2009)CAIRO, EGYPT, 2009, (TC_5_2014_DECIE, TC_5_2014_DECIE)

27. Nicu Bizon, Mihai Oproescu,, *Control performances of the bi-buck interface used for inverter current ripple compensation,* International Journals on Technical and Physical Problems of Engineering (IJTPE, ISSN 2077-3528), 1(1) 2010, 5-10https://scholar.google.ro/citations?user=C20WUCUAAAAJ&hl=en&cstart=40&pagesize=20, 2010, (TC_5_2016_DECIE, TC_4_2016_DECIE, TC_5_2016_DECIE, TC_4_2016_DECIE)

28. Mihai Oproescu,Nicu Bizon, *Some Aspects about Implementation of an Emulator for the Photovoltaic Panel,* University of Pitesti Scientific Bulletin, Series: "Electronics and Computer Science", ISSN-1453-1119 (B+), 10(2), pp. 57-62, 2010, 2010, (TC_2_2016_DECIE, TC_4_2016_DECIE, TC_2_2016_DECIE, TC_4_2016_DECIE)

29. Nicu Bizon, Emil Sofron, Mihai Oproescu, *Low Frequency Ripple Mitigation of the Fuel Cell Inverter System using a Controlled Buck Current Source–Part II: Nonlinear Control,* 6th European Conference on Intelligent Systems and Technologies (ECIT2010), CD Proceedings, 2010, (TC_5_2014_DECIE, TC_1_2014_DECIE, TC_5_2014_DECIE, TC_1_2014_DECIE)

30. Nicu Bizon,Mihai Oproescu, *Multiport Power Converters Used in Plug-in Fuel Cell Vehicles – State of the Art,* Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'11, No. 1, pp. 113-122, Piteşti, ISSN 1843–2115https://scholar.google.ro/citations?user=C20WUCUAAAAJ&hl=en&cstart=40&pagesize=20, 2011

31. Nicu Bizon,Mihai Oproescu, *Multiport Power Converters Used in Plug-in Fuel Cell Vehicles – Energy efficiency,* Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'11, No. 1, pp. 123-130, Piteşti, ISSN 1843–2115https://scholar.google.ro/citations?user=C20WUCUAAAAJ&hl=en&cstart=40&pagesize=20, 2011

32. Nicu Bizon,Mihai Oproescu,Marian Raducu,Luminita Mirela Constantinescu, *On the Search Speed for the Extremum Seeking Control Scheme Based on Band Pass Filter. Part II - performances estimation,* Proceedings of Int. conf. Technologies and Power Electronics (TPE13), 9-11 Sept 2013, Istambul, Turkey. (www.iotpe.com), pp. 1-5, ISSN 2303-9752 (CD-ROM: ISSN 2303-9760), 2013, (TC_2_2013_DECIE, TC_5_2013_DECIE, TC_2_2013_DECIE, TC_5_2013_DECIE)

33. Nicu Bizon,Mihai Oproescu,Marian Raducu,Luminita Mirela Constantinescu, *On the Search Speed for the Extremum Seeking Control Scheme Based on Band Pass Filter. Part I - Signal Processing in the Control Loop,* Proceedings of Int. conf. Technologies and Power Electronics (TPE13), 9-11 Sept 2013, Istambul, Turkey. (www.iotpe.com), pp.1-5, ISSN 2303-9752 (CD-ROM: ISSN 2303-9760), 2013, (TC_5_2013_DECIE, TC_2_2013_DECIE, TC_5_2013_DECIE, TC_2_2013_DECIE)

34. Nicu Bizon,Mihai Oproescu,Marian Raducu,Luminita Mirela Constantinescu, *The Extremum Seeking Control based on Band Pass Filter for the Dither Signal Processed in the Control Loop,* International Journal on "Technical and Physical Problems of Engineering" (IJTPE), IJTPE - Issue 16, Volume 5, Number 3, September 2013 ISSN 0016-0503-0913, pp. 133-141, 2013, (TC_5_2013_DECIE, TC_2_2013_DECIE, TC_5_2013_DECIE, TC_2_2013_DECIE)

35. George Robert Şişman, Mihai Oproescu, *Predictive maintenance of power industrial electronic equipment,* Predictive maintenance of power industrial electronic equipment, Journal of Electrical Engineering, Electronics, Control and Computer Science, JEEECCS, Volume 1, Issue 2, pages 21-30, 2015, Google Academic Scholar, 2015, (TC_2_2015_DECIE, TC_4_2015_DECIE)

36. Nicu Bizon, Mihai Oproescu,George Sisman, *FAILURE RISK ANALYSIS USING DATA FROM A POWER STATION REMOTE MONITORED,* International Journal on"Technical and PhysicalProblems of

Engineering"(IJTPE)Published by International Organization of IOTPEIssue 28,Volume 8, Number 3, Pages 42-51, 2016, (TC_2_2016_DECIE, TC_2_2016_DECIE)

37. George Sisman, Nicu Bizon, Mihai Oproescu, *The importance of PLC in the predictive maintenance of electronic equipment,* ECAI 2018 - International Conference – 10th Edition , Electronics, Computers and Artificial Intelligence28 June -30 June, 2018, Iasi, ROMÂNIA, 2018, (TC_1_2018_DECIE)

38. Nicu Bizon, Alin Gheorghita Mazare, Ionescu Mihai Laurentiu, Mihai Oproescu, Jose Manuel Lopez-Guede, Mihai Varlam, Mircea Raceanu and Ioan Cristian Hoarcă, *Renewable (REW) / Fuel Cell (FC) Hybrid Power System with mitigation of the REW variability by the FC fuel flow control,* ECAI 2018 - International Conference – 10th Edition Electronics, Computers and Artificial Intelligence28 June -30 June, 2018, Iasi, ROMÂNIA, 2018, (TC_1_2018_DECIE)

39. Mihai Oproescu, Vasile-Gabriel Iana, Mirel-Dorin Stanica, Mirela Gherghe, Ioan Lita, *Determining the Risk Level Regarding to the Positioning of an Exam Machine Used in the Nuclear Environment, based of polynomial regression,* ECAI 2018 - International Conference – 10th Edition Electronics, Computers and Artificial Intelligence28 June -30 June, 2018, Iasi, ROMÂNIA, 2018, (TC_1_2018_DECIE)

D. Lucrări (articole) publicate în perioada 1975 - 2019 în reviste şi volume de conferinţe cu referenţi (neindexate)

D2. Articole în volumele manifestărilor ştiinţifice

1. Mihai Oproescu, Ana Oproescu, Nicu Bizon, Gabriel Iana, *ROLE OF THE DEDICATED SOFTWARE APPLICATIONS IN EDUCATIONAL MANAGEMENT,* EDU WORLD 2018 - The 8th International ConferenceThe European Proceedings of Social & Behavioural Sciences EpSBS, ISSN: 2357-1330, 2018, (TC_10_2018_DECIE)

2. ihai Oproescu, Ana Oproescu, Nicu Bizon, Gabriel Iana, *SOFTWARE APPLICATIONS USED FOR THE EDUCATIONAL ACTIVITY MANAGEMENT OF STUDENTS,* EDU WORLD 2018 - The 8th International ConferenceThe European Proceedings of Social & Behavioural Sciences EpSBS, 2018, (TC_10_2018_DECIE)

F. Granturi / proiecte de cercetare înperioada 1975 - 2019

F1. Granturi / proiecte câştigate prin competiţie internaţională

1. Cost-Efficient Data Collection for Smart Grid and Revenue Assurance (Optimizarea costurilor la colectarea datelor de la contoarele inteligente si metode de imbunatatire a profitului la transportul energiei electrice), Mihai Oproescu, CERA-SG, Project Outline Application ID: 77594, Project plan – ERA-Net Smart Grids Plus (director), Total 2016 = 39.627,00 Euro (178.321,50 Lei), 2016, 0.00, (TC_4_2016_DECIE, TC_4_2016_DECIE)

F2. Granturi / proiecte câştigate prin competiţie naţională

1. Mihai Oproescu, *Algoritmi inteligenti pentru controlul eficient al unui sistem invertor alimentat de la o pila de combustie,* Grant CNCSIS nr. 570 - 2006-2008, Valoare: 69000 RON, 2006

2. Mihai Oproescu, *Sistem integrat de conversie a energiei din surse regenerabile,* Grant MEC nr. 226/2006 ; beneficiar: AMTRANS, contractant: Institutul National de Cercetare-Dezvoltare pentru Tehnologii Criogenice si Izotopice - ICSI Rm. Valcea, nr. 2354/.2006, 2006-2008, Valoare: 65000 RON, 2006, (TC_11_2016_DECIE, TC_5_2016_DECIE, TC_11_2016_DECIE, TC_5_2016_DECIE)

3. Mihai Oproescu, *Cercetări teoretice şi experimental demonstrative ale sistemelor de propulsie electrică şi hibridă pentru dezvoltarea sistemelor de transport competitive şi durabile,* - SEPDUR CEEX-M1-C2-5558 (X2C31), MEC- PNCDI- AMTRANS, 2006-2008, Valoare: 1139258, 2006, (TC_1_2016_DECIE, TC_5_2016_DECIE, TC_1_2016_DECIE, TC_5_2016_DECIE)

4. Mihai Oproescu, *Pelicule polimere in sistem compozit utilizate ca mijloace de ecranare electromagnetica in domeniul microundelor,* MATNANTECH-, MEC- PNCDI – MATNANTECH, 2006-2008, 2006, (TC_4_2014_DECIE, TC_4_2014_DECIE)

5. Mihai Oproescu, *Tehnologii pe bază de materiale nanostructurate pentru condensatori electrochimici cu strat dublu utilizabili la stocarea energiei electrice,* TEHNANOCONEL; Contract (cu AMCSIT) nr. 310/13.09.2006. MEC- PNCDI - AMTRANS, 2006-2008. Valoare : 105000 RON, 2006, (TC_2_2015_DECIE, TC_2_2015_DECIE)

6. Mihai Oproescu, *Sistem mecanic pentru cuplarea surselor de putere termică şi electrică, destinat automobilelor ecologice cu propulsie hibridă,* Nr. X2C32 MEC – PNCDI, 2006-2008, 2006, (TC_11_2015_DECIE, TC_1_2015_DECIE, TC_11_2015_DECIE, TC_1_2015_DECIE)

7. Mihai Oproescu, *Modelarea si controlul optim al fluxurilor de putere intr-un sistem de generare a energiei folosind pile de combustie,* Grant CNCSIS nr 18/1.10.2007 : Modelarea si controlul optim al fluxurilor de putere intr-un sistem de generare a energiei folosind pile de combustie, Valoare 8500 lei, 2007

8. Mihai Oproescu, *Proteze locomotorii inteligente – INTELPROT,* Valoare: 1.980.000 din care, 145.000 UPit; Contract nr. 1379, CEEX 2007, Tipul proiectului PC, 2007-2010 (36 luni), Nr. 11_069 /14.09.2007 , 2007, (TC_2_2015_DECIE, TC_2_2015_DECIE)

9. Mihai Oproescu, *Sistem informatic de proiectare, simulare, testare si configurare a sistemelor energetice inteligente de energie regenerabila,* SINERG, Contract nr. 22140 / 25.09.2008, Valoare : 35765 Lei, 2008, (TC_1_2015_DECIE, TC_11_2015_DECIE, TC_1_2015_DECIE, TC_11_2015_DECIE)

10. Mihai Oproescu, *Validarea experimentala a unui sistem de propulsie cu pile de combustibil cu hidrogen pentru un autovehicul usor - 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, TC_5_2016_DECIE, TC_11_2016_DECIE)

11. Mihai Oproescu, *Sistem de achiziție, monitorizare, analiză și recunoastere a vibrațiilor pentru protectia 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, TC_4_2016_DECIE, TC_9_2016_DECIE)

12. OPROESCU MIHAI, BIZON NICU, OPROESCU MIHAI, BELOIU ROBERT CRISTIAN, *Experimental validation of a propulsion system for a hydrogen fuel cell for a light vehicle - Mobility hydrogen Demonstrator (Validarea experimentala a unui sistem de propulsie cu pile de combustibil cu hidrogen pentru un autovehicul usor - Demonstrator,* Cod: PN-III-P2-2.1-PED-2016-1223, beneficiar: INC DTCI ICSI Rm. Valcea, anul: 2018, domeniul stiintific: Energie, valoare: 40000.00, 2018, (TC_23_2018_DECIE)

13. OPROESCU MIHAI, IONITA SILVIU, IANA VASILE GABRIEL, CIOC ION BOGDAN, DOBRE RADUCU RAZVAN, OPROESCU MIHAI, *Senzori si sisteme integrate electronice si fotonice pentru securitatea persoanelor si a infrastructurilor (SENSIS)/ Contract: 71PCCDI/2018.*, Cod: PN-III-P1-1.2-PCCDI-2017-0419, beneficiar: Universitatea POLITEHNICA București, anul: 2018, domeniul stiintific: Spatiu și securitate/TIC, valoare: 36000.00, 2018, (TC_27_2018_DECIE)

14. OPROESCU MIHAI, SOARE LILIANA CRISTINA, MAZARE ALIN GHEORGHITA, IONESCU LAURENTIU MIHAI, BIZON NICU, LITA IOAN, SERBAN GHEORGHE, OPROESCU MIHAI, ANGHELESCU PETRE, VISAN DANIEL ALEXANDRU, BELU NADIA, ANGHEL DANIEL CONSTANTIN, TOPALA CARMEN MIHAELA, SUTAN N, *PN-III-P1-1.2-PCCDI-2017-0332 "Creșterea capacității instituționale de cercetare bioeconomică pentru exploatarea inovatoare a resurselor vegetale autohtone, în vederea obținerii de produse horticole cu valoare adăugată ridicată" – BIOHORTINOV /,* Cod: PN-III-P1-1.2-PCCDI-2017, beneficiar: UPIT, anul: 2018, domeniul stiintific: Bioeconomie, valoare: 1533000.00, 2018, (TC_25_2018_DECIE)

15. OPROESCU MIHAI, BIZON NICU, OPROESCU MIHAI, IONESCU LAURENTIU MIHAI, MAZARE ALIN GHEORGHITA, CAZACU DUMITRU, CONSTANTINESCU LUMINITA MIRELA, *Concept Development of an Energy Storage Unit Using High Temperature Superconducting Coil for Spacecraft Power Systems,* Cod: Programul de Cercetare, Dezvoltare şi Inovare pentru Tehnologie Spaţială şi Cercetare Avansata -STAR (Space Technology and Advanced Research), beneficiar: INC DTCI ICSI Rm. Valcea, anul: 2018, domeniul stiintific: Space Applications, valoare: 51645.00, 2018, (TC_24_2018_DECIE)

Data: 24.04.2019

Cadrul didactic OPROESCU MIHAI

Semnătura