



Nr.: ..... din data de: .....

**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 și optimizarea fluxurilor de putere din sisteme inverter alimentate de la pile de combustie*,  
Inginerie electronică, telecomunicații și tehnologii informaționale, 2011

**B. Cărți și capitole în cărți publicate în perioada 2004 - 2023**

**B1. Cărți și capitole în cărți de specialitate internaționale 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 &ndash; 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. Cărți și capitole în cărți de specialitate naționale ca autor (cu ISBN intern)**

1. Nicu Bizon, Mihai Oproescu, *Convertoare de Putere utilizate în 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 Pitești, Pitești, 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)
3. Eugenia JIANU, Mihai OPROESCU, Dumitru TUDOSOIU, Vladimir ENĂCHESCU, *Teorie și practică în management educațional*, Copyright © 2019 – Editura Universității din Pitești. Toate drepturile asupra acestei ediții sunt rezervate Editurii Universității din Pitești. Nicio parte din acest volum nu poate fi reproducă sub orice formă, fără permisiunea scrisă a autorilor. Editor: lector univ. dr. Sorin FIANU. Referenți științifici: - conf. univ. dr. Ionuț BULGARU - conf. univ. dr. Florin TECĂUTEORIE ȘI PRACTICĂ ÎN MANAGEMENT EDUCAȚIONAL Eugenia JIANU, Mihai OPROESCU, Dumitru TUDOSOIU, Vladimir ENĂCHESCU e-ISBN: 978-606-560-629-6 Editura Universității din Pitești Str. Târgu din Vale, nr.1, 110040, Pitești, jud. Argeștel/fax: 40348, 2019, (TC\_12\_2019\_DECIE)
4. Mihai Oproescu, *Electronica de putere. Teorie și practică*, Electronica de putere. Teorie și practică, Editura Universității din Pitești, 2021 e-ISBN: 978-606-560-689-0, 2020, (TC\_8\_2020\_DECIE)

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

1. Mihai Oproescu, *Considerații metodice privind perfecționarea lecțiilor la disciplinele tehnice de specialitate. Rolul metodelor bazate pe acțiune practică*, , 2013
2. Mihai Oproescu, *Sisteme de intrare - iesire. Note de curs*, , 2016

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

1. Mihai Oproescu, *Măsurări în electronica și telecomunicații – Îndrumar de laborator*, , 2013
2. Mihai Oproescu, *Electronica de putere – Îndrumar de laborator*, , 2013
3. Mihai Oproescu, *Electronica industrială – Îndrumar de laborator*, , 2013
4. Mihai Oproescu, *Bioinformatică; Îndrumar de laborator*, , 2013
5. Mihai Oproescu, *Electronica medicală – Îndrumar de laborator*, , 2013
6. Mihai Oproescu, *Surse de putere pentru echipamente de comunicații – Îndrumar de laborator*, , 2014
7. Mihai Oproescu, *Convertoare electronice de putere – Îndrumar de laborator*, , 2014
8. Mihai OPROESCU, *ÎNDRUMAR DE LABORATOR BIOINFORMATICA*, Mihai Oproescu, ÎNDRUMAR DE LABORATOR BIOINFORMATICA, Editura universității din Pitești, 74 pg. e-ISBN: 978-606-560-691-0, 2020

## **C. Lucrări (articole) ISI / BDI publicate în perioada 2004 - 2023**

### **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)

6. Bizon, N; Mazare, AG; Ionescu, LM; Thounthong, P; Kurt, E; Oproescu, M; Serban, G; Lita, I, *Better Fuel Economy by Optimizing Airflow of the Fuel Cell Hybrid Power Systems Using Fuel Flow-Based Load-Following Control*, ENERGIES Volume: 12, Issue: 14, Article Number: 2792, DOI: 10.3390/en12142792, Published: JUL 2 2019, 2019, (TC\_1\_2019\_DECIE)

7. Bizon, Nicu, Oproescu, Mihai, Thounthong, Phatiphat, Varlam, Mihai, Carcadea, Elena, Culcer, Mihai, (Iliescu, Mariana, Raboaca, Maria Simona, Sorlei, Ioan Sorin, *Improving the Fuel Economy and Battery Lifespan in Fuel Cell/Renewable Hybrid Power Systems Using the Power-Following Control of the Fueling Regulators*, APPLIED SCIENCES-BASEL Volume: 10 Issue: 22 Article Number: 8310 DOI: 10.3390/app10228310 Published: NOV 2020 Document Type: Article View Journal Impact, 2020, (TC\_8\_2020\_DECIE)

8. Ovidiu-Constantin Novac; Mihai Cristian Chirodea; Cornelia Mihaela Novac; Nicu Bizon; Mihai Oproescu; Ovidiu Petru Stan; Cornelia Emilia Gordan, *Analysis of the Application Efficiency of TensorFlow and PyTorch in Convolutional Neural Network*, Sensors 2022, 22(22), 8872; https://doi.org/10.3390/s22228872 Received: 17 September 2022 / Revised: 16 October 2022 / Accepted: 9 November 2022 / Published: 16 November 2022, 2022, (TC\_2\_2022\_DECIE)

9. Manar Elshahawy 1, Ahmed Elnemr 2, Mihai Oproescu 3,\*, Adriana-Gabriela Schiopu 4, Ahmed Elgarayhi 2, Mohammed M. Elmogy 1,\* and Mohammed Sallah, *Early Melanoma Detection Based on a Hybrid YOLOv5 and ResNet Technique*, Diagnostics Volume 13, Issue 17 September 2023 Article number 2804 ISSN: 20754418, DOI: 10.3390/diagnostics13172804, 2023, (TC\_12\_2023\_DECIE)

10. Adriana-Gabriela Schiopu, Mihai Oproescu, Vasile Gabriel Iana, Catalin Marian Ducu, Sorin Georgian Moga, Denisa Stefania Vilcoci, Georgiana Cirstea, Valentin Marian Calinescu and Omar Ahmed, *Synthesis and characterization of ZnO-nanostructured particles produced by solar ablation*, Materials 2023, 16 (19), 6417. https://doi.org/10.3390/ma16196417 Special Issue Emerging Technologies for Development of Novel Materials Systems and Coatings (Volume 2), 2023, (TC\_2\_2023\_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 & Electronic WOS:000255993602107, 2007

2. Nicu Bizon, Emil Sofron, Mihai Oproescu, *Intelligent control of the power flows into an energy generation system*, 11th 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/EPEPMC.2008.4635334, ISBN:978-1-4244-1741-4, Web of Science Categories: Automation & Control Systems; Engineering, Electrical & Electronic WOS: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; Robotics WOS: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 & Electronic WOS: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:978-1-908320-09-4 Web of Science Categories: Computer Science, Interdisciplinary Applications; Environmental Sciences WOS: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 Sciences WOS: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:978-80-261-0038-6 ISSN: 1803-7232 Web 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. Nicu Bizon, Mihai Oproescu, 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 & Method WOS: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:978-1-4673-4937-6 Web of Science Categories: Computer Science, Artificial Intelligence; Computer Science, Theory & Methods WOS: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)
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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 [IEEE Xplore] [Scopus], 2016, (TC\_2\_2016\_DECIE, TC\_5\_2016\_DECIE, TC\_2\_2016\_DECIE, TC\_5\_2016\_DECIE)
17. Mirel Stanica, Man Ion, Mihai Oproescu, *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 [IEEE Xplore] [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)
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21. 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)
22. 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)
23. 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)
24. 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



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25. 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)

26. 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)

27. 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)

28. 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)

29. 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)

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48. Ovidiu Constantin Novac, David Ghiurău, Mihaela Cornelia Novac, Cornelia Emilia Gordan, Mihai Oproescu, Gyongyi Bujdoso and Vlad Ovidiu Mihalca, *Comparison of Node.js and Spring Boot in Web Development*, 15th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2023, Bucharest, 29-30 June 2023Conference ProceedingsISBN: 979-835032138-8, 2023, (TC\_2\_2023\_DECIE)
49. Mihai Oproescu, Omar Ahmed, Vasile-Gabriel Iana, Maria Magdalena Dicu, Ancuța Mihaela Balteanu and Monica Baldea, *Trends and Advantages in Using Nanomaterials for Air Filtration*, 15th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2023, Bucharest, 29-30 June 2023Conference ProceedingsISBN: 979-835032138-8, 2023, (TC\_2\_2023\_DECIE)
50. Adriana-Gabriela Schiopu, Mihai Oproescu, Ionut Bulgaru, Ovidiu Constantin Novac, Mihaela Cornelia Novac and Gabriel Vasile Iana, *Formation of Specific Competences in the Engineering Career by Educational Software – methodological landmarks applied to the “Initiation in research” discipline*, 15th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2023, Bucharest, 29-30 June 2023Conference ProceedingsISBN: 979-835032138-8, 2023, (TC\_2\_2023\_DECIE)

## **F. Granturi / proiecte de cercetare în perioada 2004 - 2023**

### **F1. Granturi / proiecte câștigate prin competiție internațională**

1. *Cost-Efficient Data Collection for Smart Grid and Revenue Assurance (Optimizarea costurilor la colectarea datelor de la contoarele inteligente și metode de îmbunătățire 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)
2. *Synthesis and characterization of nanostructured magnesium oxide powders for composite layers/ SURF 1904040032*, OPROESCU MIHAI, ȘCHIOPU ADRIANA GABRIELA, DUCU MARIAN CATALIN, Sorin Moga, OPROESCU MIHAI, Cod: Horizon 2020/ Access SFERA III European project Grant 823802, beneficiar: Program Horizon 2020, anul: 2022, domeniul științific: Științe ingineresti /Știința materialelor, valoare: 130000.00, 2022, 130000.00, (TC\_1\_2022\_DECIE)
3. *Nanostructured oxides layers by SPVD for enhance Solar Cell efficiency/ SURF 2201300023*, OPROESCU MIHAI, ȘCHIOPU ADRIANA GABRIELA, Sorin Moga, OPROESCU MIHAI, IANA VASILE GABRIEL, Cod: Horizon 2020/ Access SFERA III European project Grant 823802, beneficiar: Program Horizon 2020, anul: 2022, domeniul științific: Științe ingineresti /Știința materialelor, valoare: 200000.00, 2022, 200000.00, (TC\_1\_2022\_DECIE)

### **F2. Granturi / proiecte câștigate prin competiție națională**

1. Mihai Oproescu, *Cercetări teoretice și experimentale demonstrative ale sistemelor de propulsie electrică și hibridă pentru dezvoltarea sistemelor de transport competitive și 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)
2. Mihai Oproescu, *Pelicle polimere în sistem compozit utilizate ca mijloace de ecranare electromagnetica în domeniul microundelor*, MATNANTECH-, MEC- PNCDI – MATNANTECH, 2006-2008, 2006, (TC\_4\_2014\_DECIE, TC\_4\_2014\_DECIE)
3. 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)
4. Mihai Oproescu, *Sistem mecanic pentru cuplarea surselor de putere termică și 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)
5. Mihai Oproescu, *Algoritmi inteligenți pentru controlul eficient al unui sistem inverter alimentat de la o pila de combustie*, Grant CNCISIS nr. 570 - 2006-2008, Valoare: 69000 RON, 2006
6. 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 și 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)
7. Mihai Oproescu, *Modelarea și controlul optim al fluxurilor de putere într-un sistem de generare a energiei folosind pile de combustie*, Grant CNCISIS nr 18/1.10.2007 : Modelarea și controlul optim al fluxurilor de putere într-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 și configurare a sistemelor energetice inteligente de energie regenerabilă*, 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 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 și 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 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)
12. , , , 2016, (TC\_2\_2016\_DECIE)
13. , , , 2017, (TC\_2\_2017\_DECIE)
14. 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 experimentală a unui sistem de propulsie cu pile de combustibil cu hidrogen pentru un autovehicul ușor - Demonstrator*, Cod: PN-III-P2-2.1-PED-2016-1223, beneficiar: INC DTCI ICSI Rm. Valcea, anul: 2018, domeniul științific: Energie, valoare: 40000.00, 2018, (TC\_23\_2018\_DECIE)
15. OPROESCU MIHAI, IONITA SILVIU, IANA VASILE GABRIEL, CIOC ION BOGDAN, OPROESCU MIHAI, RADUCU MARIAN, *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 științific: Spațiu și securitate/TIC, valoare: 36000.00, 2018, (TC\_27\_2018\_DECIE)
16. 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 horticoale cu valoare adăugată ridicată" – BIOHORTINOV /*, Cod: PN-III-P1-1.2-PCCDI-2017, beneficiar: UPIT, anul: 2018, domeniul științific: Bioeconomie, valoare: 1533000.00, 2018, (TC\_25\_2018\_DECIE)
17. 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 și Inovare pentru Tehnologie Spațială și Cercetare Avansată -STAR (Space Technology and Advanced Research), beneficiar: INC DTCI ICSI Rm. Valcea, anul: 2018, domeniul științific: Space Applications, valoare: 51645.00, 2018, (TC\_24\_2018\_DECIE)

**Data: 07.12.2023**

**Cadrul didactic OPROESCU MIHAI**

*Semnătura*

