



## Europass Curriculum Vitae



### Personal information

First name(s) /  
Surname(s) **Mihaela POPESCU**

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Nationality Romanian

Date of birth June 11, 1965

Gender Female

### Work experience

Dates **1992 - present**

Occupation or position  
held

#### University teacher:

Professor (**2007 – present**); Associate professor (**2002 – 2007**); Lecturer (**1997 – 2002**); Assistant professor (**1992 – 1997**).

Positions held:

*Director* - Doctoral School in Electrical and Energy Engineering, University of Craiova, Romania (**2021-**);

*Director* - Department of Electromechanics, Environment and Applied Informatics, Faculty of Electrical Engineering, University of Craiova, Romania (**2011-2019**);

*Head of Chair* - Electrical Drives and Industrial Informatics, Faculty of Electromechanical, Environmental and Industrial Informatics Engineering, University of Craiova, Romania (**2008-2011**);

Member of the *Faculty Council* (**2008-present**)

Member of *University Senate* (**2013-2020**).

Main activities and  
responsibilities

Teaching, research, managerial, relationships with the economic environment

Name and address of  
employer

University of Craiova, A.I. Cuza, 13, Craiova, RO-200585, Dolj, Romania

Type of business or  
sector

Academic higher education

Dates **1988 - 1992**

Occupation or position  
held

#### Engineer

Name and address of  
employer

Chemical plant Isalnita, Dolj, Romania

Type of business or  
sector

Industry

### Education and training

Dates	<b>September 2016</b>			
Title of qualification awarded	<b>Certificate of Habilitation in Electrical Engineering, PhD Supervisor</b>			
Principal subjects/occupational skills covered	Power quality, Energy efficiency; Electrical drive systems, Static converters, Power electronics, Active power filters, Resonant converters for Induction heating systems, Active DC-traction substations. Habilitation thesis: Research concerning the power quality and solutions for increasing the energy efficiency Research skills			
Name and type of organisation providing education and training	University of Craiova, Minister for Education and Research, Romania			
Level in national or international classification	ISCED 8			
Dates	<b>1994-2001</b>			
Title of qualification awarded	<b>PhD in Electrical Engineering</b>			
Principal subjects/occupational skills covered	Power quality, Energy efficiency; Electrical drives, Static converters, Electrical machines, Fundamentals of electrical engineering, PhD thesis: Energetic aspects of the driving systems with induction motors and frequency static converters			
Name and type of organisation providing education and training	University of Craiova, Romania			
Level in national or international classification	ISCED 8			
Dates	<b>1983 - 1988</b>			
Title of qualification awarded	<b>Engineer</b> , Electrical Engineering, specializing in electrical drives			
Principal subjects/occupational skills covered	Mathematical analysis, Special mathematics, Fundamentals of electrical engineering, Electrical machines, Electrical measurements, Electrical drives, Static converters, Systems theory and automatic control, Using computers Teaching and fundamental research skills			
Name and type of organisation providing education and training	University of Craiova, Faculty of Electrotechnics, Romania			
Level in national or international classification	ISCED 6			
Dates	<b>1979 - 1983</b>			
Title of qualification awarded	Baccalaureate degree			
Principal subjects/occupational skills covered	General skills in real type profile			
Name and type of organisation providing education and training	High School of Mathematics and Physics "Tudor Vladimirescu", Tg.-Jiu, Romania			
Level in national or international classification	ISCED 3			

#### Other language(s)

Self-assessment

European level (\*)

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	

French	C1	Proficient user	C1	Proficient user	B2	Independent user	C1	Proficient user	C1	Proficient user
English	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

(\*) *Common European Framework of Reference for Languages*

Social skills and competences	Ability to work in teams, mediation, psycho-pedagogical skills, communication skills, acquired and proven in teaching, research and managerial activity
Organisational skills and competences	Leadership (director of department and head of chair); Project management (director of 5 multiannual research projects obtained through national competition).
Technical skills and competences	Energy efficiency, clean energy, energy systems, power quality, power conditioners, active power filters, nonsinusoidal regime, static converters, electrical drives, power & energy engineering, automatic control systems, nonlinear systems, modeling and simulation, computer aided graphics, databases - acquired through basic training, teaching and research activity.
Computer skills and competences	Advanced knowledge in Office (Word, Excel, Access, PowerPoint), Matlab-Simulink, AutoCAD etc. - acquired and developed through the nature of profession.

### Additional information

**Publications:** 12 books; 1 book chapter in international publishing, 78 articles in ISI journals and proceedings; 110 articles in journals and proceedings indexed in other international databases; 6 patents; 49 articles in other journals and proceedings of international / national conferences.

**Research contracts:** 5 multiannual projects obtained through national competition as a director; 1 international project as a member of the research teams; 19 other national projects as a member of the research teams.

**Citations:** over 400 in ISI journals/conference proceedings and over 250 in other international databases.

**Reviewer (over 1000 reviews):** journals (IEEE Trans. Industrial Informatics, IEEE Trans. Industrial Electronics, IET Generation, Transmission & Distribution, Advances in Electrical and Computer Engineering, Measurement, Energy & Fuels, International Journal of Automation and Power Engineering, Technical Transactions and others), IEEE conferences (such as IECON, ISIE, ICEM, POWERENG, ICM, PEMC, OPTIM and others), and other journals/conferences.

**Editorial Board Member of:** Energies; International Journal of Modeling and Optimization; Journal of Power Electronics, Machines and Drives; International Journal of Automation and Power Engineering; Technical Transactions-Series: Electrical Engineering; Journal of Control Science and Engineering; International Journal of Electrical and Electronic Science; Sci-an Open Access Journal by MDPI; Technology transfer: fundamental principles and innovative technical solutions; Eastern-European Journal of Enterprise Technologies; EUREKA: Physics and Engineering; Review of Information Engineering and Applications; Recent Advances in Electrical & Electronic Engineering; SCIREA Journal of Physics; Electricity; Energy-saving technologies and equipment.

**Member of scientific committees/program committees** in over 370 scientific conferences.

**Expert evaluator** in: the National University Research Council (CNCSIS - the main Romanian funding organization for university and postgraduate research programs); The Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI).

**Expert evaluator** in: Czech Science Foundation - the main public funding agency in the Czech Republic.

**Evaluator** in the National Register of Evaluators (NRE) of The Romanian Quality Assurance Agency for Higher Education (ARACIS).

**Scientific referent** for 11 PhD theses.

**Membership in professional organizations:** senior member IEEE (Institute of Electrical and Electronics Engineers), Senior member in International Association of Computer Science and Information Technology (IACSIT); Athens Institute for Education and Research (ATINER) -Academic member of the Electrical Engineering Research Unit; IEEE Industrial Electronics Society; IEEE Industry Applications Society; Yaseen Academy, Huangjiahu Lake University Town, Wuhan, Hubei, China, National Association of Electrical Drives (ANAE),

**Specializations:** Saint- Etienne, France, Université Jean Monnet, June 1993, Grant TEMPUS; Bruxelles, Belgium, Université Libre de Bruxelles, May 1994, Grant TEMPUS; Noisy-le-Grand, France, Groupe ESIEE, September 1996, AUF; Amiens, France, Groupe ESIEE, April-June 1999, Grant World Bank.

### Annexes

LIST OF SCIENTIFIC PAPERS AND RESEARCH CONTRACTS (EXTRACT)

## LIST OF SCIENTIFIC PAPERS AND RESEARCH CONTRACTS (EXTRACT)

**Prof. Mihaela Popescu**

### LIST OF THE 10 RELEVANT PAPERS

1. **Mihaela Popescu**, Alexandru Bitoleanu, Constantin Vlad Suru, Mihaita Linca, and Laurentiu Alboteanu, *Energies* 2024. Shunt Active Power Filters in Three-Phase, Three-Wire Systems: A Topical Review, 17, no. 12: 2867. <https://doi.org/10.3390/en171228672>.
2. **Mihaela Popescu**, Energy Efficiency in Electric Transportation Systems, *Energies* 2022, 15(21), 8177; <https://doi.org/10.3390/en15218177>
3. **Mihaela Popescu**, Alexandru Bitoleanu, Mihaita Linca and Constantin Vlad Suru, Improving Power Quality by a Four-Wire Shunt Active Power Filter: A Case Study, *Energies* 2021, 14, 1951. <https://doi.org/10.3390/en14071951> (SCIE, IF: 3.004).
4. **Mihaela Popescu**, A Bitoleanu, CV Suru, M Linca, GE Subtirelu, Adaptive Control of DC Voltage in Three-Phase Three-Wire Shunt Active Power Filters Systems, *Energies* 2020, vol. 13, issue 12, 3147, <https://doi.org/10.3390/en13123147> (SCIE, IF: 3.004).
5. **Mihaela Popescu** and A. Bitoleanu, A Review of the Energy Efficiency Improvement in DC Railway Systems, *Energies* 2019, 12, 1092; doi:10.3390/en12061092 (SCIE, IF: 3.004).
6. **Mihaela Popescu**, A. Bitoleanu, A. Preda, A New Design Method of an LCL Filter Applied in Active DC-Traction Substations, *IEEE Transactions on Industry Applications*, Vol. 54, Issue 4, ISSN: 0093-9994, JULY/AUGUST 2018, pp. 3497-3507, DOI: 10.1109/TIA.2018.2819968 (SCIE, IF: 3.654).
7. **Mihaela Popescu**, A. Bitoleanu, V. Suru, A DSP-Based Implementation of the p-q theory in active power filtering under nonideal voltage conditions, *IEEE Transactions on Industrial Informatics*, ISSN 1551-3203, Vol. 9, Issue 2, May 2013, DOI: 10.1109/TII.2012.2223223, pp. 880-889 (SCIE, IF: 10.215).
8. **Mihaela Popescu**, A. Bitoleanu, V. Suru, Phase coordinate system and p-q theory based methods in active filtering implementation, *Advances in Electrical and Computer Engineering*, ISSN: 1582-7445, Vol. 13, Issue 1, 2013, DOI:10.4316/AECE.2013.01012, pp. 69-74 (SCIE, IF: 0.642).
9. A. Bitoleanu, **Mihaela Popescu**, How can the IRP p-q theory be applied for active filtering under nonsinusoidal voltage operation?, *Przegląd Elektrotechniczny*, Vol. 2011, Nr. 1, 2011, ISSN PL 0033-2097, pp. 67-71 (SCIE, IF:0,244).
10. **M. Popescu** and A. Bitoleanu, "Diagnosis of Passing over Railway Joints and Reducing the Effects in Modern Traction Systems," *2023 IEEE 14th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED)*, Chania, Greece, 2023, pp. 436-442, doi: 10.1109/SDEMPED54949.2023.10271432.

### II. PhD Thesis and Habilitation Thesis

**PhD Thesis:** Energetic aspects of electrical drive systems with induction motors and indirect static converters, Domain Electrical Engineering, University of Craiova, 2001.

**Habilitation thesis:** Research concerning the power quality and solutions for increasing the energy efficiency, Domain Electrical Engineering, 2016.

### III. BOOKS

- C1. Bitoleanu Alexandru, **Popescu Mihaela**, *Convertoare statice de putere I*, Ed. Universitaria Craiova, 2022, ISBN 978-606-14-1819-0, 188 pag.
- C2. Bitoleanu Alexandru, **Popescu Mihaela**, *Convertoare statice de putere II*, Ed. Universitaria Craiova, 2022, ISBN 978-606-14-1817-6, 194 pag.
- C3. **Mihaela Popescu**, Alexandru Bitoleanu, Energy Efficiency Improvement in DC Railway Systems: The State of the Art, Newest Updates in Physical Science Research Vol. 5, 26 May 2021, Ch. 4, Page 66-106, <https://doi.org/10.9734/bpi/nupsr/v5/8457D>, <https://stm.bookpi.org/NUPSR-V5/article/view/1399>, ISBN 978-93-90888-34-4 (Print), ISBN 978-93-90888-41-2 (eBook)
- C4. Bitoleanu Alexandru, **Popescu Mihaela**, Suru Constantin Vlad, *Filtre active de putere. Fundamente și aplicații*. Ed. Matrix, București, 2021, ISBN 978-606-25-0635-3, 354 pag.
- C5. **Popescu Mihaela**, *Baze de date*, Ed. Universitaria Craiova, 2017, 178 pag, ISBN 978-606-14-1168-9.
- C6. **Popescu Mihaela**, *Grafica asistată de calculator II - MATLAB 7*, Ed. Universitaria Craiova, 2017, 115 pag, ISBN 978-606-14-1164-1.
- C7. **Popescu Mihaela**, Suru Vlad, *Grafica asistată de calculator I – AutoCAD*, Ed. Universitaria Craiova, 2017, 137 pag., ISBN 978-606-14-1163-4
- C8. Bitoleanu Alexandru, **Popescu Mihaela**, *Convertoare statice I*, Ed. Universitaria Craiova, 2017, 188 pag., ISBN 978-606-14-1174-0.
- C9. Bitoleanu A., **Popescu Mihaela**, *Filtre active de putere*, Ed. Universitaria Craiova, 206 pagini, 2010, ISBN: 978-606-14-0039-3.
- C10. **Popescu Mihaela**, *Electronique de puissance: composants semi-conducteurs et convertisseurs*, Ed. Universitaria Craiova, 254 pagini, 2006, ISBN: 973-742-421-2.
- C11. **Popescu Mihaela**, Bitoleanu A., *Energetica sistemelor de acționare cu motoare asincrone și convertoare statice indirecte*, Ed. Mediamira Cluj-Napoca, 291 pagini, 2004, ISBN: 973-9357-54-7.
- C12. Bitoleanu A., Mihai D., **Popescu Mihaela**, Constantinescu C., *Convertoare statice și structuri de comandă performante*, Ed. SITECH Craiova, 286 pagini, 2000, ISBN: 973-657-016-9
- C13. Bitoleanu A., Ivanov S., **Popescu Mihaela**, *Convertoare statice*, Ed. INFOMED Craiova, 347 pagini, 1997, ISBN: 973-96940-2-0.

#### IV. PATENTS

- B1. Bitoleanu A., Popescu Mihaela, Metodă pentru comanda invertoarelor de tensiune cu sarcină rezonantă (METHOD FOR CONTROLLING PARALLEL LOAD RESONANT CIRCUIT INVERTERS MEANT FOR INDUCTION HEATING) Brevet nr. 129914 B1, Clasa H05B 6/06, 30/12/2021//12/2021, US 2012/0018426 A1; US 5286941, Derwent Primary Accession Number: 2015-20321F.
- B2. **Popescu Mihaela**, Bitoleanu A., Metodă și sistem pentru comanda filtrelor active paralel sub tensiune nesinusoidală (Method and system for controlling parallel-active filters, under non-sinusoidal voltage), Patent 131355 A2, international class H02J 3/01 (2006.01), BOPI nr. 8/2016, p. 35, Derwent Primary Accession Number: 2016-52626G.
- B3. Bitoleanu A., **Popescu Mihaela**, Suru C.V., Sistem de filtrare și regenerare pentru substații de tracțiune în curent continuu (Filtration and regeneration system for direct current traction substations), Patent 131356 A2 (51) international clas H02J 3/01 (2006.01), H02J 3/18 (2006.01), BOPI nr. 8/2016, p. 36, Derwent Primary Accession Number: 2015-20321F.
- B4. **Popescu Mihaela**, Bitoleanu A., Metodă de comandă optimă a motoarelor asincrone de tracțiune a locomotivelor autonome, bazată pe controlul frecvenței de alunecare (Optimal control method for asynchronous traction motors of autonomous locomotives, based on slip frequency control), BOPI no. 8/2020, p.42, Patent Number(s): RO134266-A0, Derwent Primary Accession Number: 2020-60587C.
- B5. Bitoleanu A., **Popescu Mihaela**, Suru C.V., Sistem de comandă optimă a motoarelor asincrone de tracțiune a locomotivelor autonome, bazat pe controlul frecvenței de alunecare (Optimal control system for asynchronous traction motors of autonomous locomotives, based on sliding frequency control), BOPI nr. 6/2020, p.62, Patent Number(s): RO134412-A0, Derwent Primary Accession Number: 2020-85735A.
- B6. Bitoleanu A., **Popescu Mihaela**, Suru C.V., Metodă și sistem pentru comanda adaptivă a filtrelor active de putere paralel (Method for adaptive control of active power filters arranged in parallel with load), BOPI nr. 10/2020, p. 47, Patent Number(s): RO134525-A0, Derwent Primary Accession Number: 2020-A68061.

#### V. PAPERS IN JOURNALS INDEXED IN SCIE THOMSON-REUTERS

- Ri1. Constantin Vlad Suru, Alexandru Bitoleanu, **Mihaela Popescu**, Mihaita Linca, Florin Ravigan: Particularities of Rotor Field Orientation Control Implementation on Industrial DSP Systems. Rev. Roum. Sci. Techn.-Électrotechn. et Énerg. vol.70, 1, pp. 15–20, Bucurest, 2025, doi: 10.59277/Rrst-Ee.2025.70.1.3.
- Ri2. **Mihaela Popescu**, Alexandru Bitoleanu, Constantin Vlad Suru, Mihaita Linca, and Laurentiu Alboteanu, Energies 2024. Shunt Active Power Filters in Three-Phase, Three-Wire Systems: A Topical Review, 17, no. 12: 2867. <https://doi.org/10.3390/en171228672>.
- Ri3. **Mihaela Popescu**, Energy Efficiency in Electric Transportation Systems, Energies 2022, 15(21), 8177; <https://doi.org/10.3390/en15218177>.
- Ri4. **Mihaela Popescu**, Alexandru Bitoleanu, Mihaita Linca and Constantin Vlad Suru, Improving Power Quality by a Four-Wire Shunt Active Power Filter: A Case Study, Energies 2021, 14, 1951. <https://doi.org/10.3390/en14071951> (SCIE, IF: 3.004).
- Ri5. **Mihaela Popescu**, A Bitoleanu, CV Suru, M Linca, GE Subtirelu, Adaptive Control of DC Voltage in Three-Phase Three-Wire Shunt Active Power Filters Systems, Energies 2020, vol. 13, issue 12, 3147, <https://doi.org/10.3390/en13123147>, (SCIE, IF: 3.004).
- Ri6. **Mihaela Popescu** and A. Bitoleanu, A Review of the Energy Efficiency Improvement in DC Railway Systems, Energies 2019, 12, 1092; doi:10.3390/en12061092 (SCIE, IF: 3.004).
- Ri7. **Mihaela Popescu**, A. Bitoleanu, A. Preda, A New Design Method of an LCL Filter Applied in Active DC-Traction Substations, IEEE Transactions on Industry Applications, Vol. 54, Issue 4, ISSN: 0093-9994, JULY/AUGUST 2018, pp. 3497-3507, DOI: 10.1109/TIA.2018.2819968, IF: 3.654.
- Ri8. **Mihaela Popescu**, A. Bitoleanu, V. Suru, A DSP-based implementation of the p-q theory in active power filtering under nonideal voltage conditions, IEEE Transactions on Industrial Informatics, Vol. 9, Issue 2, ISSN 1551-3203, May 2013, pp. 880-889, DOI: 10.1109/TII.2012.2223223, IF: 10.215.
- Ri9. **Mihaela Popescu**, A. Bitoleanu, V. Suru, Phase coordinate system and p-q theory based methods in active filtering implementation, Advances in Electrical and Computer Engineering, Available online: 2013-02-28, Vol. 13, Issue 1, Year 2013, pp. 69-74, ISSN: 1582-7445, DOI:10.4316/AECE.2013.01012, IF: 0.642.
- Ri10. A. Bitoleanu, **Mihaela Popescu**, How can the IRP p-q theory be applied for active filtering under nonsinusoidal voltage operation?, Przegląd Elektrotechniczny, Vol. 2011, No. 1, 2011, ISSN PL 0033-2097, pp. 67-71, IF: 0.244.
- Ri11. A. Bitoleanu, **Mihaela Popescu**, D. Marin, M. Dobriceanu, LCL interface filter design for shunt active power filters, Advances in Electrical and Computer Engineering, Vol. 10 Issue 3, August 2010, ISSN: 1582-7445, pp.55-60, Digital Object Identifier: 10.4316/AECE.2010.03009, IF: 0.700.
- Ri12. A. Bitoleanu, **Mihaela Popescu**, M. Dobriceanu, F. Nastasoie, Analysis of some current decomposition methods: comparison and case studies, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, Tome 55, Issue 1, Jan-Mar 2010, ISSN: 0035-4066, pp.13-22, IF: 0.057.

#### VI. PAPERS IN JOURNALS INDEXED IN OTHER DATABASES

- Ri13. T. Mătușă, **M. Popescu**, A. Bitoleanu and C. V. Suru, Performance Analysis of a Rotor Flux-Oriented Control in Induction Traction Motor, Annals of the University of Craiova – Electrical Engineering Series, no. 48, vol. 48, Issue 1, 2024, pp. 1-9.
- Ri14. Mihăiță Lincă, Constantin Vlad Suru, **Mihaela Popescu**, Alexandru Bitoleanu, Cristian Bratu, The Implementation of Quasi-Oriented Rotor Field Control Algorithm for Induction Motor Traction Systems, Annals of the University of Craiova – Electrical Engineering Series, no. 48, vol. 48, Issue 1, 2024, pp. 1-6.
- Ri15. E. -D. Burada, **M. Popescu**, T. Nicoară, V. Voicu and I. Dumbravă, Assessment of Corona with Partial Discharge and Radio Interference Measurement Circuits, Annals of the University of Craiova – Electrical Engineering Series, no. 48, vol. 48, Issue 1, 2024, pp. 1-7.
- Ri16. Cosmin-Ionuț Toma, Mihaela Popescu, Mihăiță-Daniel Constantinescu, Gabriel-Cosmin Buzatu, Remote Communication in the Substation's SCADA System, Annals of the University of Craiova – Electrical Engineering Series, no. 48, vol. 48, Issue 1,

- 2024, pp. 1-6.
- Ri17. **Mihaela Popescu**, Alexandru Bitoleanu, Constantin Vlad Suru and Tudor Mătuşa, On the Induction Motor Rotor Flux Estimation in the Electric Traction Systems with Rotor Flux Oriented Control, Annals of the University of Craiova, Electrical Engineering series, No. 47, Issue 1, 2023, pp. 1-7.
- Ri18. Mihăiță-Daniel Constantinescu, **Mihaela Popescu**, Gheorghe-Eugen Subțirelu and Ionuț-Cosmin Toma, Modelling, Simulation and Implementation on dSpace 1103 of the Direct Power Control in a Three-Phase Shunt Active Power Filter System, Annals of the University of Craiova, Electrical Engineering series, No. 47, Issue 1, 2023, ISSN 1842-4805, pp. 69-75.
- Ri19. Cosmin-Ionuț Toma, Mihaela Popescu, Mihăiță Daniel Constantinescu, Gabriel Cosmin Buzatu, Configuration of SCADA System Graphical User Interface for Electrical Station, Annals of the University of Craiova, Electrical Engineering series, No. 47, Issue 1, 2023, ISSN 1842-4805, eISSN 2971-9852, pp. 88-94.
- Ri20. **Mihaela Popescu**, Alexandru Bitoleanu, Gheorghe Eugen Subțirelu, New achievements in improving PQ in PCCs with high distortion and unbalance by implementing APFs Part 1: Experimental Investigation And Pq Analysis, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, Tome XX [2022] | Fascicule 4 [November], pp. 159-162.
- Ri21. Alexandru Bitoleanu, **Mihaela Popescu**, Constantin Vlad Suru, New Achievements in Improving PQ in PCCs with High Distortion and Unbalance by Implementing APFs Part 2: Active Filtering Implementation and Experimental Performances, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, Tome XX [2022] | Fascicule 4 [November], pp. 163-170.
- Ri22. Constantin Vlad Suru, **Mihaela Popescu**, Mircea Dobriceanu, Comparative study of indirect current control methods for three phase three leg four wire SAPF, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, Tome XX [2022] | Fascicule 3 [August], pp. 67-78.
- Ri23. Constantin Vlad Suru, **Mihaela Popescu**, Mihăiță Linca, Mircea Dobriceanu, Adaptive control implementation for three phase three leg four wire SAPF on dSPACE 1103 DSP board, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, Tome XX [2022] | Fascicule 3 [August], pp. 107-112.
- Ri24. Mihăiță-Daniel Constantinescu, **Mihaela Popescu**, Constantin Vlad Suru, Implementation of conservative power theory in the control of active power filters, ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering, Tome XX [2022] | Fascicule 3 [August], pp. 49-54.
- Ri25. Mihăiță Daniel Constantinescu, **Mihaela Popescu**, Cosmin-Ionuț Toma, Constantin Vlad Suru, Comparative Analysis in the Case of Indirect Current Control in a Shunt Active Filtering System, Annals of the University of Craiova, Electrical Engineering series, No. 46, Issue 1, 2022, ISSN 1842-4805, pp. 56-62.
- Ri26. Cosmin-Ionuț Toma, **Mihaela Popescu**, Mihăiță Daniel Constantinescu, Popa Ion Cristian, Application of Electrical Substation, Ring Topology versus Star Topology, Annals of the University of Craiova, Electrical Engineering series, No. 46, Issue 1, 2022, ISSN 1842-4805, pp. 63-68.
- Ri27. **Mihaela Popescu**, Alexandru Bitoleanu, Constantin Vlad Suru, Application of the Rotor Field-Oriented Control for an Induction Motor Used in Electric Traction, Annals of the University of Craiova, Electrical Engineering series, No. 45, Issue 1, 2021; ISSN 1842-4805, pp. 9-15
- Ri28. Mihăiță Daniel Constantinescu, **Mihaela Popescu**, Constantin Vlad Suru, Comparative Analysis of Two Methods of Calculating the Prescribed Current in a Shunt Active Filtering System, Annals of the University of Craiova, Electrical Engineering series, No. 45, Issue 1, 2021; ISSN 1842-4805, pp. 46-51
- Ri29. Lavinius Sorin Goreci, **Mihaela Popescu** and Ion Tilă, The Choice of the Main Power Components in Electric Traction Converters, Annals of the University of Craiova, Electrical Engineering series, No. 45, Issue 1, 2021; ISSN 1842-4805, pp. 32-38
- Ri30. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, F. A. Teodorescu, How to Design a Passive Damped LCL Coupling Filter for an Active DC-Traction Substation, Annals of the University of Craiova, Electrical Engineering series, No. 42, 2018, ISSN 1842-4805, pp. 29-36.
- Ri31. A. Bitoleanu, **Mihaela Popescu**, C. V. Suru, M. Radulescu, Synthesis of the Battery Charging System of a Stand-Alone Electric Locomotive, Annals of the University of Craiova, Electrical Engineering series, No. 42, 2018, ISSN 1842-4805, pp. 21-28.
- Ri32. **Mihaela Popescu**, Alexandru Bitoleanu, Mircea Dobriceanu, Configuring and performances of reversible DC-traction substations with compensation capabilities, Bulletin of the Polytechnic Institute of Iași, Vol. 64 (68), No. 1 2018, ISSN: 1223-8139 pp. 19-33 (Index Copernicus).
- Ri33. Constantin Vlad Suru, **Mihaela Popescu**, Cristina Alexandra Preda, Constant frequency hysteresis controller implementation for active filtering systems, Bulletin of the Polytechnic Institute of Iași, Vol. 64 (68), No. 2 2018, ISSN: 1223-8139 pp. 19-38 (Index Copernicus).
- Ri34. A. Bitoleanu, **Mihaela Popescu**, V. Suru, Designing a filtering and regeneration system testing stand and experimental evaluation, Bulletin of the Polytechnic Institute of Iași, 2018, Vol. 64 (68), No 4, 2018, pp.71-86 (Index Copernicus).
- Ri35. **Mihaela Popescu**, A. Bitoleanu, C. V. Suru, Mircea Dobriceanu, DC-Traction Substation with Improved Power Quality and Regeneration Capability, Annals of the University of Craiova, Electrical Engineering series, No. 41, 2017, ISSN 1842-4805, pp. 22 – 28.
- Ri36. A. Bitoleanu, **Mihaela Popescu**, C. V. Suru, Testing a Filtering and Regeneration System on a Recuperative Stand, Annals of the University of Craiova, Electrical Engineering series, No. 41, 2017, ISSN 1842-4805, pp. 14 – 21 (Index Copernicus).
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## XII. RESEARCH CONTRACTS

### Grants obtained through national competition, as a director

- Pn1. Knowledge Transfer Partnership, Competition POC 2015, „Partnerships for knowledge transfer, technological and applied research for innovative solutions of intelligent systems to increase energy efficiency” (in Romanian), Project ID P\_140\_196,

- budget: 7.131.448 lei, 2016-2021, director prof. **Mihaela Popescu**.
- Pn2. Applied Research Collaborative Project, PNCDI - Programme PNCDI Partnerships in priority areas: „Multifunctional static system of filtering and regeneration for active DC traction stations” (in Romanian), Partner INDA SRL Craiova, No. 42/2014, budget: 805.000 lei, 30 months (2014-2016), director prof. **Mihaela Popescu**.
- Pn3. Project in Sectorial Operational Programme Increasing Economic Competitiveness (POS CCE), Operation 2.1.1 – Research projects in partnership between universities/research-development institutes and enterprises, „Induction heating system with high energetic efficiency” (in Romanian), Beneficiary SC INDAELTRAC SRL, No.258/28.12.2011, budget: 832.830 lei, 2 years (2012-2013), director prof. **Mihaela Popescu**.
- Pn4. Grant CNCISIS type A: „Theoretical and applicative research on the nonsinusoidal regime and active filtering” (in Romanian), No.27 GR / 11.05.2007, code CNCISIS 617, budget:173 000 lei, 2 years (2007-2008), director prof. **Mihaela Popescu**.
- Pn5. Grant CNCISIS type A: „Power quality in electrical drive systems with asynchronous motors and frequency static converters” (in Romanian), No. 33062/2004, code CNCISIS 278, budget: 49 000 RON, 3 years (2004-2007), director Prof. **Mihaela Popescu**.

#### **Grants/Projects obtained through international competition, as a team member**

- Pi1. Project PC6: DRESS - “Distributed and Redundant Electromechanical Nose Gear Steering System”, AST5-CT2006-030841, budget: 66.000 Euro, 2006-2009.
- Pi2. Project SOCRATES-MINERVA: ELearning Tools for Electrical Engineering - 109789-CP-1-2003-1-BE-MINERVA-M (proiect European), budget: 30.000 EUR, SOCRATES-MINERVA, 2003-2005. Partners: Universite Catholique de Louvain, Louvain-la-Neuve, Belgia, Ecole des Hautes Etudes Industrielles (HEI), Lille, Franta, Instituto Superior Tecnico - Universidade Tecnica de Lisboa (IST), Lisboa, Portugalia, Universitatea din Craiova (UCV), Romania.

#### **Grants/ projects obtained through national competition, as a team member**

- Pn6. Knowledge Transfer Partnership, Competition POC 2015, „Research and transfer of knowledge in the field of software technologies and tools for informatisation of industrial processes” (in Romanian), Project ID 40\_416, budget 5.549.356 lei, 2016-2021, director prof. Dan Popescu.
- Pn7. Partnership in priority areas PNCDI: „Active filters of third generation” (in Romanian), No. 21-010/14.09.2007, budget: 1.055.915 lei, 3 partners, 3 ani, 3 years (2007- 2010), director prof. Alexandru Bitoleanu, **Project manager** prof. **Mihaela Popescu**.
- Pn8. Project CDI Pole of competitiveness „Automotive Sud-Vest Oltenia”, „Industrial research and experimental development vehicles powered by brushless electric motors fed by lithium-ion batteries for passenger transport-Gentle Electric” (in Romanian), P09004/1137/31.03.2014, code SMIS 50140, 2 years (2014-2015), budget: 899.999 lei, director prof. Sorin Enache.
- Pn9. Project POS CCE Development of business support structures of national and international interest – Competitiveness poles “Research to implement an advanced maintenance system for the automotive industry in order to enhance competitiveness” (in Romanian), P09 002/1139/31.03.2014, 2 years (2014-2015), budget: 732760 lei, director prof. Lucian Mandache.
- Pn10. Partnership in priority areas PNCDI: „Optimizing the operation of electric hydrogenerators by modernizing the excitation systems in order to increase the energy efficiency and their competitiveness” (in Romanian), No. 21-040/14.09.2007, budget: 209 000 lei, 3 years (2007- 2010), director prof. Alexandru Bitoleanu.
- Pn11. Project CNCISIS IDEI: „Distributed system based on artificial intelligence techniques to monitor the power quality, supervision and control of a transformer station” (in Romanian), No.628/23.12.2008, budget: 572.085 lei, 1 year, director prof. Mircea Dobriceanu.
- Pn12. Partnership in priority areas PNCDI: „System for monitoring, protection and remote control in wireless technology for low voltage electric motors” (in Romanian), No. 22112/1/06.10.2008, budget: 539.000 lei, 3 years (2008-2010), director prof. Mircea Dobriceanu.
- Pn13. Project CEEX: „Research on control systems and evaluation of emissions in transport” (in Romanian), No. 245/11.10.2005, budget: 43.120 RON, 3 years (2006-2008), director prof. Mircea Dobriceanu.
- Pn14. Project CALIST: „Test bench for DC electrical drives according to EU requirements” (in Romanian), MEC funding, No. 4203/29.07.2003, Partner ICMET Craiova, budget: 120 mil ROL, 2 years, director prof. Mircea Dobriceanu.
- Pn15. Grant CNCISIS: „Electrical drive systems with induction motors and DSP for modernizing the urban electric traction” (in Romanian), No.35254/2001, budget:154.900 lei, 3 ani, director prof. Alexandru Bitoleanu.
- Pn16. Grant CNCISIS: „High energetic performances rectifiers for electrical drive systems” (in Romanian), No. 23/20/1998, budget:35.000 lei, 1 year, director prof. Alexandru Bitoleanu.
- Pn17. Grant CNCISIS: „Soft switching static converters for electrical drive systems” (in Romanian), No. 3006/ 14C/ C10/1995, budget: 8012000 lei, 3 years, director prof. Alexandru Bitoleanu.
- Pn18. Project MIS: „Electrical drive systems with DC motors and soft switching choppers” (in Romanian), No. 3006/ 14C/ C10/1994, 1 year, director prof. Alexandru Bitoleanu.
- Pn19. Project MIS: „Electric AC servodrive systems of high performance” (in Romanian), 19c/20/1993, 1 year, director conf. Gheorghe Popescu.

#### **Research/consultancy contracts, as a team member (selection)**

- Pn20. Contract with businesses: „Study on the using the active power filters for improving the power quality” (in Romanian), 19/20.04.2004, 50.000 lei, Beneficiary SC SMART SA Craiova, 1 year, director prof.dr.ing. A. Bitoleanu.
- Pn21. Contract with businesses: „Experimental measurements and data processing for mapping the noise in Craiova” (in Romanian), No. 1314/121.03.2007, Beneficiary SC ENVIRO SRL Buc., 50.000 lei, 1 year, director prof. A. Bitoleanu.