



## Europass Curriculum Vitae



### Personal information

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

Address(es) Ulmului, Nr.35, ap.8, Craiova, Romania

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Fax +40251 435 255

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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 **September 2016**

Title of qualification awarded **Certificate of Habilitation in Electrical Engineering, PhD Supervisor**

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 **1994-2001**

Title of qualification awarded **PhD in Electrical Engineering**

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 **1983 - 1988**

Title of qualification awarded **Engineer**, 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 **1979 - 1983**

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.
<b>Additional information</b>	<p><b>Publications:</b> 9 books; 68 articles in ISI journals and proceedings; 95 articles in journals and proceedings indexed in other international databases; 6 patents; 49 articles in other journals and proceedings of international / national conferences.</p> <p><b>Research contracts:</b> 5 multiannual projects obtained through national competition as a director; 1 international project as a member of the research teams; 18 other national projects as a member of the research teams.</p> <p><b>Citations:</b> over 200 in ISI journals/conference proceedings and over 200 in other international databases.</p> <p><b>Reviewer (over 400 reviews):</b> journals (IEEE Trans. Industrial Informatics, IEEE Trans. Industrial Electronics, IET Generation, Transmission &amp; Distribution, Advances in Electrical and Computer Engineering, Measurement, Energy &amp; 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.</p> <p><b>Editorial Board Member of:</b> 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 &amp; Electronic Engineering; SCIREA Journal of Physics; Electricity; Energy-saving technologies and equipment.</p> <p><b>Member of scientific committees/program committees</b> in over 150 scientific conferences.</p> <p><b>Expert evaluator</b> 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).</p> <p><b>Expert evaluator</b> in: Czech Science Foundation - the main public funding agency in the Czech Republic.</p> <p><b>Evaluator</b> in the National Register of Evaluators (NRE) of The Romanian Quality Assurance Agency for Higher Education (ARACIS).</p> <p><b>Scientific referent</b> for 9 PhD theses.</p> <p><b>Membership in professional organizations:</b> 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; National Association of Electrical Drives (ANAE), National Association Electromagnetic Compatibility (ACER), General Association of Engineers in Romania (AGIR).</p> <p><b>Specializations:</b> 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.</p>

**Annexes** LIST OF SCIENTIFIC PAPERS AND RESEARCH CONTRACTS (EXTRACT)

Prof. Mihaela POPESCU



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

**Prof. Mihaela Popescu**

### I. LIST OF THE 10 RELEVANT PAPERS

1. **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.
2. **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: 2,676).
3. **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: 2,937).
4. **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: 8,785).
5. **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).
6. 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).
7. **Mihaela Popescu**, A. Bitoleanu, V. Suru, A. Preda, System for Converting the DC Traction Substations into Active Substations, in *Proc. 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2015)*, May 7-9, 2015, Bucharest, Romania, DOI:10.1109/ATEE.2015.7133893, pp. 632-637 (SCIE).
8. **Mihaela Popescu**, A. Pătraşcu, and M. Dobriceanu, Application of Generalized Instantaneous Reactive/Non-active Power Theories in the Control of Shunt Active Power Line Conditioners: Practical Evaluation under Nonideal Voltage and Unbalanced Load, *Book Chapter: Nonlinear Dynamics of Electronic Systems, Series: Communications in Computer and Information Science*, Vol. 438, 2014, pp. 125-133, DOI 10.1007/978-3-319-08672-9\_16 (SCIE).
9. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, Analysis and optimal design of matching inductance for induction heating system with voltage inverter, in *Proc. 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2013)*, 23-25 May 2013, Bucharest, Romania, DOI: 10.1109/ATEE.2013.6563506, pp. 1-6 (SCIE).
10. **Mihaela Popescu**, A. Bitoleanu, V. Suru, Currents' Physical Components theory implementation in shunt active power filtering for unbalanced loads, in *Proc. 11th Conference-Seminar International School on Nonsinusoidal Currents and Compensation (ISNCC)*, 20-21 June 2013, Zielona Gora, Poland, DOI: 10.1109/ISNCC.2013.6604447, pp.1-6 (SCIE).

### 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**, Static converters (in Romanian), Universitaria Craiova, 188 pages., 2017, ISBN 978-606-14-1174-0, 188 pages.
- C2. **Popescu Mihaela**, *Databases* (in Romanian), Universitaria Craiova, 178 pages, 2017, ISBN 978-606-14-1168-9.
- C3. **Popescu Mihaela**, *Computer aided graphics II - MATLAB 7* (in Romanian), Universitaria Craiova, 115 pages, 2012, ISBN 978-606-14-0370-7.
- C4. **Popescu Mihaela**, Suru Vlad, *Computer aided graphics I – AutoCAD* (in Romanian), Universitaria Craiova, 137 pages, 2012, ISBN 978-606-14-0391-2.C5.
- C5. Bitoleanu A., **Popescu Mihaela**, *Active power filters* (in Romanian), Universitaria Craiova, 206 pages, 2010, ISBN: 978-606-14-0039-3.
- C6. **Popescu Mihaela**, *Power electronics: semiconductor devices and static converters* (in French), Universitaria

Craiova, 254 pages, 2006, ISBN: 973-742-421-2.

- C7. **Popescu Mihaela**, Bitoleanu A., *Energetics of electrical drive systems with induction motors and indirect static converters* (in Romanian), Mediamira Cluj-Napoca, 291 pages, 2004, ISBN: 973-9357-54-7.
- C8. Bitoleanu A., Mihai D., **Popescu Mihaela**, Constantinescu C., *Static converters and performing control structures* (in Romanian), SITECH Craiova, 286 pages, 2000, ISBN: 973-657-016-9.
- C9. Bitoleanu A., Ivanov S., **Popescu Mihaela**, *Static converters* (in Romanian), INFOMED Craiova, 347 pages, 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), Patent RO129914-A2, RO-BOPI no.11/2014, p. 42, international class H05B 6/06 (2006.01), Derwent Primary Accession Number: 2016-52536D.
- 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 optimală 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 optimală 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 slip 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. **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.
- Ri2. **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: 2,676).
- Ri3. **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: 2,937.
- Ri4. **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: 8.785.
- Ri5. **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.
- Ri6. 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.
- Ri7. 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.
- Ri8. A. Bitoleanu, **Mihaela Popescu**, M. Dobriceanu, F. Nastasoiu, 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

- Ri9. **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).
- Ri10. Constantin Vlad Suru, **Mihaela Popescu**, Cristina Alexandra Preda, Constant frequency hysteresis controller implementation for active filtering systems, *Bulletin of the Polytechnic Institute of Iași*, 2018 (Index Copernicus).

- Ri11. 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 (Index Copernicus).
- Ri12. **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.
- Ri13. 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).
- Ri14. **Mihaela Popescu**, Alexandru Bitoleanu, Mircea Dobriceanu, On the implementation of FBD-theory concepts in the control of active DC-traction substations, Annals of the University of Craiova, Electrical Engineering series, No. 40, 2016, ISSN 1842-4805, 39 – 45 (Index Copernicus).
- Ri15. Alexandru Bitoleanu, **Mihaela Popescu**, Dinu Roxan Doboșeriu, Power Control and Energetic Performances of an Induction Heating System Destined for Drying of Current Transformers, Annals of the University of Craiova, Electrical Engineering series, No. 40, 2016, ISSN 1842-4805, 54 – 59 (Index Copernicus).
- Ri16. Dinu Roxan Doboșeriu, Alexandru Bitoleanu, **Mihaela Popescu**, Energetic Analysis of the Drying Process of Current Transformers from 110 kV Ciungetu Power Station, Annals of the University of Craiova, Electrical Engineering series, No. 40, 2016, ISSN 1842-4805, 74 – 79 (Index Copernicus).
- Ri17. Alexandru Bitoleanu, **Mihaela Popescu**, Active filtering and regeneration system dedicated to DC active traction substations, The 18th National Conference on Electrical Drives (CNAE 2016), 13-14 octombrie 2016, Cluj- Napoca, Acta Electrotehnica, Ed. Mediamira, Cluj-Napoca, vol.57, nr.3-4, pp. 444-457(EBSCO).
- Ri18. Vlad Suru, **Mihaela Popescu**, Alexandra Preda, Using the CPC theory for a filtering and energy recovery system used in urban traction DC substations, Acta Electrotehnica, Ed. Mediamira, Cluj-Napoca, vol.57, nr.3-4, pp. 484- 489 (EBSCO).
- Ri19. D. Doboșeriu, **Mihaela Popescu**, Alexandru Bitoleanu, Modeling and Performances of an Induction Heating System with Resonant Voltage Inverter for Drying of Current Transformers from Ciungetu Power Station, Acta Electrotehnica, Ed. Mediamira, Cluj-Napoca, vol.57, nr. 3-4, pp. 459-464 (EBSCO).
- Ri20. **Mihaela Popescu**, A. Bitoleanu, Alexandra Preda, Performance of an Active DC-Traction Substation with 12- Pulse Parallel Rectifier and Indirect Current Control, Annals of the University of Craiova, Electrical Engineering series, No. 39, 2015; ISSN 1842-4805, pp. 73-79 (Index Copernicus).
- Ri21. V. Suru, **Mihaela Popescu**, I. Deaconu, Study of Indirect Current Control methods for Urban Traction Active DC Substations, Annals of the University of Craiova, Electrical Engineering series, No. 39, 2015; ISSN 1842-4805, pp.157-163 (Index Copernicus).
- Ri22. **Mihaela Popescu**, A. Bitoleanu, Simulink Library for Reference Current Generation in Active DC Traction Substations. World Academy of Science, Engineering and Technology, International Science Index 104, International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering (2015), Vol. 9, No. 8, pp. 578 – 585 (Scholar Google, International Science Index).
- Ri23. **Mihaela Popescu**, A. Bitoleanu, and Alexandra Pătrașcu, Power Control Assessment in Induction Heating Systems with Voltage Source Inverter and Resonant L-LC Load, Annals of the University of Craiova, Electrical Engineering series, No. 38, ISSN: 1842-4805, 2014, pp.70-77 (Index Copernicus).
- Ri24. A. Bitoleanu, **Mihaela Popescu**, V. Suru, Experimental Evaluation of Induction Heating Systems with Phase-Shift Voltage Resonant Inverter, Annals of the University of Craiova, Electrical Engineering series, No. 38, ISSN: 1842-4805, 2014, pp. 50-55 (Index Copernicus).
- Ri25. **Mihaela Popescu**, M. Dobriceanu, G. Oprea, Improving Compensation Performance in Three-Phase Active Power Line Conditioners by DC-Voltage Control, Annals of the University “Eftimie Murgu” Reșița, Fascicle of Engineering, Year XXI, No. 3, 2014, ISSN 1453-7397, pp. 167-176 (DOAJ, EBSCO, Index Copernicus).
- Ri26. A. Bitoleanu, **Mihaela Popescu**, V. Suru, High Performance Shunt Active Power Filter: Design Consideration and Experimental Evaluation, Annals of the University “Eftimie Murgu” Reșița, Fascicle of Engineering, Year XXI, No. 3, 2014, ISSN 1453-7397, pp. 153-166 (DOAJ, EBSCO, Index Copernicus).
- Ri27. **Mihaela Popescu**, A. Bitoleanu, Power Control System Design in Induction Heating with Resonant Voltage Inverter, Journal of Automation and Control Engineering, Vol. 2, No. 2, June 2014, ISSN: 2301-3702, DOI: 10.12720/joace, pp. 195-198 (Scholar Google, CrossRef)
- Ri28. A. Bitoleanu, **Mihaela Popescu**, The p-q theory and Compensating Current Calculation for Shunt Active Power Filters: Theoretical Aspects and Practical Implementation, Przegląd Elektrotechniczny, No. 6, 2013, ISSN PL 0033-2097, pp. 11-16 (SCOPUS, Scholar Google).
- Ri29. **Mihaela Popescu**, A. Bitoleanu, E. Subțirelu, Design and Performance of the Voltage Control Loop in Induction Heating Systems with L-LC resonant inverters, Annals of the University of Craiova, Electrical Engineering series, No. 37, ISSN: 1842-4805, 2013, pp.39-43 (Index Copernicus)..
- Ri30. V. Suru, **Mihaela Popescu**, A. Pătrașcu, Using dSPACE in the Shunt Static Compensators Control, Annals of the University of Craiova, Electrical Engineering series, No. 37, ISSN: 1842-4805, 2013, pp.94-99 (Index Copernicus, Scholar Google).
- Ri31. **Mihaela Popescu**, A. Bitoleanu, and A. Pătrașcu, MATLAB/SIMULINK Library for Compensating Current Calculation in Three-Phase Shunt Active Filtering Systems, Bulletin AGIR No. 4/2012, pp. 246-250, ISSN-L 1224-7928 (Index Copernicus, Scholar Google).

- Ri33. A. Pătrașcu, **Mihaela Popescu**, and V. Suru, The Conservative Power Theory and the Active Filtering, Bulletin AGIR No. 4/2012, pp. 179-182, ISSN-L 1224-7928 (Index Copernicus, Scholar Google).
- Ri34. **Mihaela Popescu**, A. Bitoleanu, and V. Suru, P-Q Theory and Total Active Filtering Compensation under Distorted Supply Voltages, Bulletin AGIR No. 3/2012, pp. 367-372, ISSN-L 1224-7928 (Index Copernicus, Scholar Google).
- Ri35. A. Pătrașcu, **Mihaela Popescu**, and V. Suru, Current Decomposition Based on the P-Q Theory Concepts, Bulletin AGIR No. 3/2012, pp. 373-378, ISSN-L 1224-7928 (Index Copernicus, Scholar Google).
- Ri36. **Mihaela Popescu** and A. Bitoleanu, Three-Phase Active Filtering System under Nonsinusoidal Voltage Conditions, Bulletin AGIR No. 4/2011, Oct.-Dec., pp. 115-120, ISSN-L 1224-7928 (Index Copernicus, Scholar Google).
- Ri37. A. Bitoleanu, **Mihaela Popescu**, and V. Suru, P-Q Theory and Apparent Power Calculation for Active Filtering, Bulletin AGIR No. 4/2011, Oct.-Dec., pp. 107-114, ISSN-L 1224-7928, Online: ISSN 2247-3548 (Index Copernicus, Scholar Google).
- Ri38. V. Suru, A. Bitoleanu, **Mihaela Popescu**, and M. Linca, Optimal Control Design of DC Circuit of a Shunt Active Power Filter, Bulletin AGIR No. 4/2011, Oct.-Dec., pp. 121-128, ISSN-L 1224-7928, Online: ISSN 2247-3548 (Index Copernicus, Scholar Google).
- Ri39. **Mihaela Popescu**, A. Bitoleanu, and V. Suru, Time-Domain Based Active Compensation Strategies Under Nonsinusoidal Conditions in Three-Phase Three-Wire Systems, Annals of the University of Craiova, Electrical Engineering series, No. 35, ISSN 1842-4805, 2011, pp.19-24 (Index Copernicus).
- Ri40. A. Pătrașcu and **Mihaela Popescu**, Comparative Active Current Calculation by P-Q And CPC Theories, Annals of the University of Craiova, Electrical Engineering series, No. 35, ISSN 1842-4805, 2011, pp.25-30 (Index Copernicus, Scholar Google).
- Ri41. **Mihaela Popescu**, A. Bitoleanu, and D. Marin, On the DC-Capacitance and Control of Voltage Across the Compensating Capacitor in Three-phase Shunt Active Power Filters, Annals of the University of Craiova, Electrical Engineering series, No. 34, Vol.II, ISSN 1842-4805, 2010, pp.53-58 (Index Copernicus, Scholar Google).
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## VIII. PAPERS IN PROCEEDINGS INDEXED IN OTHER DATABASES

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## **IX. 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), Lisbona, 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.