



## 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> 10 books; 69 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, 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>
2. **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.
3. **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).
4. **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).
5. **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).
6. **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).
7. 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).
8. **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).
9. **Mihaela Popescu**, A. Pătrașcu, and M. Dobricianu, 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).
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**, Suru Constantin Vlad, Active power filters. Fundamentals and applications (in Romanian), Ed. Matrix, București, 2021, ISBN 978-606-25-0635-3, 354 pages.
- C2. Bitoleanu Alexandru, **Popescu Mihaela**, Static converters (in Romanian), Universitaria Craiova, 188 pages., 2017, ISBN 978-606-14-1174-0, 188 pages.
- C3. **Popescu Mihaela**, *Databases* (in Romanian), Universitaria Craiova, 178 pages, 2017, ISBN 978-606-14-1168-9.
- C4. **Popescu Mihaela**, *Computer aided graphics II - MATLAB 7* (in Romanian), Universitaria Craiova, 115 pages, 2012, ISBN 978-606-14-0370-7.
- C5. **Popescu Mihaela**, Suru Vlad, *Computer aided graphics I – AutoCAD* (in Romanian), Universitaria Craiova, 137 pages, 2012, ISBN 978-606-14-0391-2.C5.
- C6. Bitoleanu A., **Popescu Mihaela**, *Active power filters* (in Romanian), Universitaria Craiova, 206 pages, 2010, ISBN: 978-606-14-0039-3.
- C7. **Popescu Mihaela**, *Power electronics: semiconductor devices and static converters* (in French), Universitaria

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

- C8. **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.
- C9. 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.
- C10. 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**, 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>
- Ri2. **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.
- Ri3. **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).
- Ri4. **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.
- Ri5. **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.
- Ri6. **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.
- Ri7. 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.
- Ri8. 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.
- Ri9. 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

- Ri10. **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).
- Ri11. 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).
- Ri12. 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).
- Ri13. **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.
- Ri14. 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).
- Ri15. **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).
- Ri16. 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).
- Ri17. Dinu Roxan Doboșeriu, Alexandru Bitoleanu, **Mihaela Popescu**, Energetic Analysis of the Drying Process of Current Transformers from 110 kV Ciugetu Power Station, Annals of the University of Craiova, Electrical Engineering series, No. 40, 2016, ISSN 1842-4805, 74 – 79 (Index Copernicus).
- Ri18. 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).
- Ri19. 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).
- Ri20. D. Doboșeriu, **Mihaela Popescu**, Alexandru Bitoleanu, Modeling and Performances of an Induction Heating System with Resonant Voltage Inverter for Drying of Current Transformers from Ciugetu Power Station, Acta Electrotehnica, Ed. Mediamira, Cluj-Napoca, vol.57, nr. 3-4, pp. 459-464 (EBSCO).
- Ri21. **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).
- Ri22. 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).
- Ri23. **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).
- Ri24. **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).
- Ri25. 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).
- Ri26. **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).
- Ri27. 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).
- Ri28. **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)
- Ri29. 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).
- Ri30. **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)..
- Ri31. 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).
- Ri32. **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).
- Ri34. A. Pătraşcu, **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).
- Ri35. **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).
- Ri36. A. Pătraşcu, **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).
- Ri37. **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).
- Ri38. 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).
- Ri39. 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).
- Ri40. **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).
- Ri41. A. Pătraşcu 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).
- Ri42. **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).
- Ri43. A. Bitoleanu, **Mihaela Popescu** and V. Suru, Some Aspects of P-Q Theory for Active Filtering Applications, Annals of the University of Craiova, Electrical Engineering series, No. 34, Vol.II, ISSN 1842-4805, 2010, pp.30-35 (Index Copernicus).
- Ri44. **Mihaela Popescu**, A. Bitoleanu, Control Loops Design and Harmonic Distortion Minimization in Active Filtering-based Compensation Power Systems, International Review on Modelling and Simulations (I.RE.MO.S.), Vol. 3, No. 4, August 2010, ISSN 1974-9821, pp. 581-589 (SCOPUS).
- Ri45. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, On the AC-Side Interface Filter in Three-Phase Shunt Active Power Filter Systems, World Academy of Science, Engineering and Technology Journal, Vol. 46, 2010, pISSN 2010-376X, pp.987-992 (SCOPUS, Scholar Google).
- Ri46. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, V. Suru, Optimum Control Strategy of Three-Phase Shunt Active Filter System, World Academy of Science Engineering and Technology Journal, Issue 58, October 2009, pISSN 2010-376X, pp.441-446 (SCOPUS, CiteSeer, Scholar Google).
- Ri47. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, Compensation-Based Current Decomposition, Proceedings of World Academy of Science: Engineering & Technolog; Feb. 2009, Vol. 49, p598-603 (EBSCO, CiteSeerX, Scholar Google).
- Ri48. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, M. Linca, Cascade Control System of Three Phase Shunt Active Filters, Annals of the University of Craiova, Electrical Engineering series, No. 33, 2009, pp.80-84 (Scholar Google).
- Ri49. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, E. Subtirelu, O.D. Dobriceanu, Acquisition, Command and Data Transfer System for Medium Voltage Electrical Stations, Annals of the University of Craiova, Electrical Engineering series, No. 33, 2009, pp. 72-76 (Scholar Google).
- Ri50. A. Bitoleanu, **Mihaela Popescu**, M. Dobriceanu, Akagi's P-Q Theory and Active Filtering under Non-Sinusoidal Voltage, Annals of the University of Craiova, Electrical Engineering series, No. 33, 2009, pp. 16-22 (Scholar Google).
- Ri51. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, Harmonic Current Reduction in Railway Systems, WSEAS Transactions on Systems, Issue 7, Volume 7, July 2008, ISSN 1109-2777, pp. 689-698 (SCOPUS, ACM, Scholar Google).
- Ri52. A. Bitoleanu, **Mihaela Popescu**, M. Dobriceanu, F. Nastasoiu, Current Decomposition Methods Based on p-q and CPC Theories for Active Filtering Reasons, WSEAS Transactions on Circuits & Systems, Issue 10, Volume 7, October 2008, ISSN 1109-2734, pp. 869-878 (SCOPUS, ACM, Scholar Google).
- Ri53. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, S. Enache, E. Subtirelu, SCADA System for Monitoring Water Supply Networks, WSEAS Transactions on Systems, Issue 10, Volume 7, October 2008, ISSN 1109-2777, pp. 1070-1079 (ACM, Scholar Google).
- Ri54. **Mihaela Popescu**, A. Bitoleanu, Nastasoiu Felicia, Current decomposition for active filtering reasons: part 2 – case studies, Proceedings of the 14th National Conference Of Electrical Drives, Sept. 25-26, Timisoara, 2008, Scientific Bulletin of the "Politehnica" University of Timișoara, Romania, Transaction of Power

- Engineering, Tom 53(67), ISSN 1582 – 7194, pp. 209-212, 2008 (WorldCat).
- Ri55. Ri51. **Mihaela Popescu**, A. Bitoleanu, F. Nastasoiu, V. Suru, Current decomposition for active filtering reasons: part 1 - p-q theory and physical components theory, Proceedings of the 14th National Conference Of Electrical Drives, Sept. 25-26, Timisoara, 2008, Scientific Bulletin of “Politehnica” University of Timișoara, Romania, Transaction of Power Engineering, Tom 53(67), ISSN 1582 – 7194, pp. 31-34, 2008 (WorldCat).
- Ri56. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, M. Lincă, Simulation Tool for Power Quality Analysis, Annals of the University din Craiova, Electrical Engineering series, Vol.31, 2007, pp. 307-312 (Scholar Google).
- Ri57. A. Bitoleanu, **Mihaela Popescu**, M. Lincă, Instantaneous Complex Apparent Power Theory and Apparent Power Definitions – Case Studies, Annals of the University din Craiova, Electrical Engineering series, Vol.31, 2007, pp. 285-289 (Scholar Google).
- Ri58. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, Matlab GUI Application in Energetic Performances Analysis of Induction Motor Driving Systems, WSEAS Transactions on Advances in Engineering Education, Issue 5, Volume 3, Greece, May 2006, ISSN 1790–1979, pp. 304-311 (ENGINEERING VILLAGE, INSPEC, TIB, Scholar Google).
- Ri59. **Mihaela Popescu**, A. Bitoleanu, M. Lincă, On the Energetic Influence of the Voltage-Frequency Correlation in the Induction Motor Driving Systems, Bulletin Of University Petrol-Gaze Ploiești, Technical series, Vol.LVIII, No.2bis, 2006, ISSN 1224-8495, pp. 197-203 (EKT).
- Ri60. S. Degeratu, **Mihaela Popescu**, N. Bizdoaca, Aspects Regarding the Performances of a New Insulation System for the 6kV Induction Motors, WSEAS Transactions on Circuits and Systems, Issue 7, Volume 5, Greece, July 2006, ISSN 1109 – 2734, pp. 1009-1015 (SCOPUS, Scholar Google).
- Ri61. S. Degeratu, **Mihaela Popescu**, V. Degeratu, Exhaustive Method for the Determination of the Phase Rotor Resistance for Asynchronous Motors with Squirrel-Cage Rotor, Bulletin of Polytechnic Institute Iasi, Tome LII (LVI), Fasc. 5A, Electrotehnica, Energetica Electronica, 2006, ISSN 1223-8139, pp. 293-298 (Index Copernicus).
- Ri62. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, G. Vladut, Technological Parameters Monitoring and Control System for Water Distribution Stations, Bulletin Of University Petrol-Gaze Ploiești, Technical series, Vol.LVIII, No.2bis, 2006, ISSN 1224-8495, pp. 53-58 (EKT).
- Ri63. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, G. Vlăduț, Practical Aspects Concerning the Monitoring of the Electrical Stations; WSEAS Transactions on Information Science and Applications, Issue 11, Volume 2, Greece, November 2005, ISSN 1790 – 0832, pp. 1897-1904 (SCOPUS).
- Ri64. **Mihaela Popescu**, A. Bitoleanu, The Harmonics Mitigation to Input of Static Converter and Electric Driving Systems, WSEAS Transactions on Systems, Issue 9, Volume 4, Greece, September 2005, ISSN 1109–2777, pp. 1546-1555 (SCOPUS, Scholar Google).
- Ri65. **Mihaela Popescu**, M. Lincă, Voltage Control Influence on the Apparent Power Minimisation of the Induction Motor and Static Converter Driving Systems, Acta Electrotehnica, Mediamira, Cluj-Napoca, Vol. 44, No.3, 2004, pp.117-122, (GIGA-EJL, WorldCat).
- Ri66. A. Bitoleanu, **Mihaela Popescu**, About Reference Currents Calculation of Active Power Filters Using Instantaneous Power, Acta Electrotehnica, Mediamira, Cluj-Napoca, Vol. 44, No.3, 2004, p. 111-116 (GIGA-EJL, WorldCat).
- Ri67. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, M. Lincă, Energetic Data Supervision within Carbon Exploitations, Acta Electrotehnica, Mediamira, Cluj-Napoca, Vol. 44, No.3, 2004, pp. 229-234 (GIGA-EJL, WorldCat).
- Ri68. **Mihaela Popescu**, A. Bitoleanu, Input Apparent Power Minimization of Asynchronous Motor Supplied by Frequency Static Converter, ELECTROMOTION. An International Journal Devoted to Research, Development, Design and Application of Electromechanical Energy Converters, Actuators and Transducers, Vol. 10, No.4, October-December 2003, ISSN 1223-057X, pp. 523-526 (ENGINEERING VILLAGE, INSPEC).
- Ri69. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, The Implementation of an Energy Dispatching System within Carbon Exploitations, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Vol.II (XII), 2003, ISSN 1583-0691, pp. 59 (WorldCat, INDEX COPERNICUS).
- Ri70. **Mihaela Popescu**, A. Bitoleanu, New Power Optimization Possibilities of Static Converter and Asynchronous Motor Driving Systems, The Annals of "Dunărea de Jos" University of Galați, Fascicle III, Electrotehnica, Electronics, Automatic Control, Informatics, 2002, ISSN 1221-454x, pp.40-47 (DOAJ, Ebscohost, Scholar Google).
- Ri71. **Mihaela Popescu**, A. Bitoleanu, Comparative Analysis of the Energetical Impact of the Electrical Drive with Induction Motor and Voltage Source Converter on the Network, Electromotion, Vol.8, No.3, July-September 2001, ISSN: 1223-057X, pp. 180-185 (ENGINEERING VILLAGE, INSPEC, Scholar Google)
- Ri72. **Mihaela Popescu**, A. Bitoleanu, The Energetical Performances of the Electrical Drive with Induction Motor and Voltage Source Sinusoidal Modulation Converter, Bulletin of Polytechnic Institute Iași, Tome XLVI (L), Fasc. 5, Electrotehnica, Energetics, Electronics, 2000, ISSN 0258-9109, pp. 54-59 (INDEX COPERNICUS, WorldCat).
- Ri73. A. Bitoleanu, **Mihaela Popescu**, Energetical Aspects of the Voltage and Frequency Static Converter with Asynchronous Motor Driving Systems, Bulletin of Polytechnic Institute Iași, Tome XLVI (L), Fasc. 5, Electrotehnica, Energetics, Electronics, 2000, ISSN 0258-9109, pp.37-46 (INDEX COPERNICUS, WorldCat).
- Ri74. A. Bitoleanu, **Mihaela Colțescu (Popescu)**, Simulation of the dynamics regime of electrical drive system



with synchronous motor and current source inverter (in Romanian), Journal E.E.A.-Electrotehnica 38, No.5, July 1990, pp. 223-227 (Ovid Gateway).

- Ri75. A. Bitoleanu, Gh. Manolea, D. Mihai, **Mihaela Colțescu (Popescu)**, Mathematical model of electrical drive system with synchronous motor and current source inverter, Journal E.E.A.-Electrotehnica 38, No.5 July 1990, pp. 220-222 (Ovid Gateway).

## VII. PAPERS IN PROCEEDINGS INDEXED IN SCIE THOMSON-REUTERS (ISI PROCEEDINGS)

- Vi1. **Mihaela Popescu**, A. Bitoleanu, M.Dobriceanu, M. Rădulescu, Control System in Battery-Charging Regime for Autonomous Locomotives, 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 055-060, doi: 10.1109/EPE50722.2020.9305588.
- Vi2. A. Bitoleanu, **Mihaela Popescu**, C.V. Suru, A. Stănculescu, A New Approach in DC Circuit Design of Shunt Active Power Filters, 11th International Conference and Exposition on Electrical and Power Engineering (EPE 2020), Iași, Romania, October 22-23, 2020.
- Vi3. C.V. Suru, **Mihaela Popescu**, M. Linca, A. Stanculescu, Fuzzy Logic Controller Implementation for the Compensating Capacitor Voltage of an Indirect Current Controlled Active Filter, 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 039-044, doi: 10.1109/EPE50722.2020.9305570.
- Vi4. **Mihaela Popescu**, A. Bitoleanu, C. V. Suru, M. Dobriceanu, F. A. Teodorescu, A Marinescu, Synthesis of a System for Adapting and Feeding a Consumer Without Access to the LV Network, IEEE CPE- POWERENG 2020, Setúbal - Portugal / 8 - 10 July, 2020, pp. 303-308.
- Vi5. **Mihaela Popescu**, A. Bitoleanu, M Dobriceanu, L. Goreci, Optimal control method of an asynchronous traction motor, in Proceedings of the 11th International Symposium on Advanced Topics in Electrical Engineering, March 28-30, 2019, Bucharest, Romania, DOI: 10.1109/ATEE.2019.8724969,
- Vi6. **Mihaela Popescu**, A. Bitoleanu, G. E. Subțirelu, The energetic performances of control at constant magnetic flux of an induction traction motor: Part 2 - Performances of control at constant rotor flux and comparative analysis, in Proceedings of the 6th International Symposium on Electrical and Electronics Engineering, ISEEE2019, 18 - 20 October 2019. Galati Romania.
- Vi7. Mihăiță Lincă, **Mihaela Popescu**, Alexandru Bitoleanu, The energetic performances of control at constant magnetic flux of an induction traction motor: Part 1 - Performances of control at constant stator flux and constant magnetizing flux, in Proceedings of the 6th International Symposium on Electrical and Electronics Engineering, ISEEE2019, 18 - 20 October 2019. Galati Romania.
- Vi8. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, F.A. Teodorescu, On the AC-Connecting of a system for active filtering and regeneration in active DC-traction substations, 14th International Conference on Applied and Theoretical Electricity (ICATE), Craiova, ROMANIA, OCT 4-6, 2018.
- Vi9. A. Bitoleanu, **Mihaela Popescu**, V. Suru, F.A. Teodorescu, Synthesis of the battery charging system of a stand- alone electric locomotive using the traction converter, 14th International Conference on Applied and Theoretical Electricity (ICATE), Craiova, ROMANIA, OCT 4-6, 2018.
- Vi10. **Mihaela Popescu**, Alexandru Bitoleanu, Mihăiță Lincă, Oana Punea, Performance and limits of boost rectifiers with unity power factor, The 5th International Symposium on Electrical and Electronics Engineering (ISEEE 2017), 20-22 October 2017, Galati, Romania, pp. 1-6, DOI: 10.1109/ISEEE.2017.8170640.
- Vi11. Alexandru Bitoleanu, **Mihaela Popescu**, Constantin Vlad Suru, Bidirectional static system for active D.C. traction substations. Theoretical and experimental evaluation, The 5th International Symposium on Electrical and Electronics Engineering (ISEEE 2017), 20-22 October 2017, Galati, Romania, pp. C, DOI: 10.1109/ISEEE.2017.8170635.
- Vi12. **Mihaela Popescu**, Alexandru Bitoleanu, Vlad Suru, and Mircea Dobriceanu, Increasing power quality in a 6-pulse DC-traction substation, The 11-th International Conference on Electromechanical and Power Systems (SIELMEN 2017), 12-13 October 2017, Chisinau, Moldova, pp. 483 - 488, DOI: 10.1109/SIELMEN.2017.8123376.
- Vi13. Alexandru Bitoleanu, **Mihaela Popescu**, Vlad Constantin Suru, Oana Punea, Set-up and implementation of a recuperative stand for testing a filtering and regeneration system, The 11-th International Conference on Electromechanical and Power Systems (SIELMEN 2017), 12-13 October 2017, Chisinau, Moldova, pp. 489 – 494, DOI: 10.1109/SIELMEN.2017.8123377.
- Vi14. **Mihaela Popescu**, Alexandru Bitoleanu, Mircea Dobriceanu, On the Frequency Control in High Efficiency Induction Heating System with Resonant Inverter, Proc.of The 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2017), 23-25 March 23-25, Bucharest, Romania, pp. 601-606
- Vi15. **Alexandru Bitoleanu**, **Mihaela Popescu**, Constantin Vlad Suru, Configuring and experimental evaluation of a laboratory model for filtering and regeneration in active dc traction substations, Proc.of The 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2017), March 23-25, 2017, Bucharest, Romania, pp. 591-596
- Vi16. **Mihaela Popescu**, Alexandru Bitoleanu, Mircea Dobriceanu, Investigations on the Coupling LCL Filter in Active Traction Substations, Proc. Optimization of Electrical & Electronic Equipment (OPTIM) and Aegean Conference on Electrical Machines and Power Electronics (ACEMP) -OPTIM-ACEMP 2017, May 23-25 2017, Brasov, Romania, pp.654-659

- Vi17. Alexandru Bitoleanu, **Mihaela Popescu**, Constantin Vlad Suru, Theoretical and Experimental Evaluation of the Indirect Current Control in Active Filtering and Regeneration Systems, Proc. Optimization of Electrical & Electronic Equipment (OPTIM) and Aegean Conference on Electrical Machines and Power Electronics (ACEMP) -OPTIM-ACEMP 2017, May 23-25 2017, Btasov, Romania, pp.759-764
- Vi18. **Mihaela Popescu**, A. Bitoleanu, V. Suru, On the design of LCL filter with passive damping in three-phase shunt active power filters, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2016, Capri, Italy, 22th-24th June, 2016, pp. 826-831.
- Vi19. **Mihaela Popescu**, A. Bitoleanu, A. Preda, Design and performances of the separating circuit in regeneration and filtering system for active DC-traction substations, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2016, Capri, Italy, 22th-24th June, 2016, pp. 1180-1185.
- Vi20. A. Bitoleanu, **Mihaela Popescu**, M. Linca, Limitations of LCL filter for three-phase shunt active power filters in active traction substations, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2016, Capri, Italy, 22th-24th June, 2016, pp. 671-676.
- Vi21. V. Suru, **Mihaela Popescu**, A. Bitoleanu, Control algorithm implementation for a filtering and regeneration system used in urban traction DC substations, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2016, Capri, Italy, 22th-24th June, 2016, pp. 651-656.
- Vi22. **Mihaela Popescu**, A. Bitoleanu, A. Preda, A New Design Method of an LCL Filter in Active DC-Traction Substations, The Power Electronics and Motion Control Conference (PEMC) 2016, Varna, Bulgaria, Sept. 25-30, 2016, pp. 868-873
- Vi23. **Mihaela Popescu**, A. Bitoleanu, I. Deaconu, M. Dobriceanu, Improvement of Power Quality and Energy Efficiency in Bucharest Metro Traction Substations, The Power Electronics and Motion Control (PEMC) 2016, Varna, Bulgaria, Sept. 25-30, 2016, pp. 898-903
- Vi24. A. Bitoleanu, **Mihaela Popescu**, V. Suru, Optimal Controllers Design in Indirect Current Control System of Active DC-Traction Substation, The Power Electronics and Motion Control (PEMC) 2016, Varna, Bulgaria, Sept. 25-30, 2016, pp. 904-909.
- Vi25. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, FBD-based Control in Active DC-Traction Substations, 13th International Conference on Applied and Theoretical Electricity (ICATE), Craiova, ROMANIA, OCT 6-8, 2016.
- Vi26. **Mihaela Popescu**, A. Bitoleanu, V. Suru, Indirect Current Control in Active DC Railway Traction Substations, 2015 Int. Aegean Conference on Electrical Machines & Power Electronics (ACEMP), 2015 Intl Conference on Optimization of Electrical & Electronic Equipment (OPTIM) & 2015 Intl Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION), Side – Turkey. 2-4 September 2015, pp. 192 - 197, DOI: 10.1109/OPTIM.2015.7426954.
- Vi27. **Mihaela Popescu**, A. Bitoleanu, V. Suru, A. Preda, System for Converting the DC Traction Substations into Active Substations, The 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.
- Vi28. A. Bitoleanu, **Mihaela Popescu**, M. Linca, V. Suru, The Performances Of An Active Filtering And Regenerative System For Dc Railway Traction Substations, The 9th International Symposium On Advanced Topics in Electrical Engineering (ATEE 2015), May 7-9, 2015, Bucharest, Romania, DOI: 10.1109/ATEE.2015.7133892, pp. 626-631.
- Vi29. **Mihaela Popescu**, A. Pătrașcu, 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.
- Vi30. A. Bitoleanu, **Mihaela Popescu**, and V. Suru, Maximizing Power Transfer in Induction Heating System with Voltage Source Inverter, Proceedings of the 22nd International Conference on Nonlinear Dynamics of Electronic Systems, NDES 2014, Albena, Bulgaria, July 4-6, 2014, Book Series: Communications in Computer and Information Science, Springer International Publishing Switzerland 2014, Vol. 438, 2014, pp. 134-141 DOI 10.1007/978-3-319-08672-9\_17
- Vi31. **Mihaela Popescu**, A. Bitoleanu, and A. Pătrașcu, On the Control System Synthesis and its Practical Evaluation in Induction Heating Systems with Resonant Voltage Inverter, 12th International Conference on Applied and Theoretical Electricity (ICATE), Craiova, ROMANIA, doi: 10.1109/ICATE.2014.6972650, OCT 23-25, 2014, pp.1-6, doi: 10.1109/ICATE.2014.6972650
- Vi32. A. Bitoleanu, **Mihaela Popescu**, and V. Suru, Shift Phase Power Control in Induction Heating Systems with Voltage Resonant Inverter, 12th International Conference on Applied and Theoretical Electricity (ICATE), Craiova, ROMANIA, OCT 23-25, 2014, DOI: 10.1109/ICATE.2014.6972649, pp.1-6
- Vi33. **Mihaela Popescu**, M. Dobriceanu, M. Linca, Gh. Oprea, Orthogonal Reference Frame based Methods in Three- Wire Active Power Line Conditioners: Practical Evaluation under Unbalanced Load and Nonideal Voltage Conditions, The 14th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM 2014), 22-24 May 2014, Brașov Cheile Grădiștei, Romania, DOI: 10.1109/OPTIM.2014.6851003, pp. 532 – 539
- Vi34. V. Suru, A. Pătrașcu, **Mihaela Popescu**, A. Bitoleanu, Conservative Power Theory application in shunt active power filtering under asymmetric voltage, The 14th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM 2014), 22-24 May 2014, Brașov Cheile Grădiștei, Romania,

- DOI: 10.1109/OPTIM.2014.6850998, pp. 647 - 654
- Vi35. **Mihaela Popescu**, A. Bitoleanu, V. Suru, Currents' Physical Components theory implementation in shunt active power filtering for unbalanced loads, 11th Conference-Seminar International School on Nonsinusoidal Currents and Compensation (ISNCC), 20-21 June 2013, Zielona Gora, Poland, pp.1-6, Print ISBN:978-1-4673-6312-9, Digital Object Identifier: 10.1109/ISNCC.2013.6604447
- Vi36. A. Bitoleanu, **Mihaela Popescu**, Shunt Active Power Filter: Overview on the Reference Current Methods Calculation and their Implementation (Tutorial), 4th International Symposium on Electrical and Electronics Engineering (ISEEE 2013), 11-13 Oct. 2013, Galati, Digital Object Identifier:10.1109/ISEEE.2013.6674384, pp.1-12
- Vi37. **Mihaela Popescu**, A. Bitoleanu, V. Suru, Control of the Power in Induction Heating Systems with L-LC Resonant Voltage Source Inverters, 4th International Symposium on Electrical and Electronics Engineering, (ISEEE 2013), 11-13 Oct. 2013, Galati, Digital Object Identifier: 10.1109/ISEEE.2013.6674344, pp. 1-6
- Vi38. V. Suru, **Mihaela Popescu**, A. Bitoleanu, Energetic Performances of Induction Heating Systems with Voltage Resonant Inverter 4th International Symposium on Electrical and Electronics Engineering, (ISEEE 2013), 11-13 Oct. 2013, Galati, Digital Object Identifier: 10.1109/ISEEE.2013.6674378, pp. 1-6
- Vi39. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, Analysis and optimal design of matching inductance for induction heating system with voltage inverter, The 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2013), 23-25 May 2013, Bucharest, Romania, Print ISBN: 978-1-4673-5979-5 INSPEC Accession Number: 13778634, Digital Object Identifier: 10.1109/ATEE.2013.6563506, pp. 1-6
- Vi40. **Mihaela Popescu**, A. Bitoleanu, Phase Coordinates System versus Orthogonal Reference Frame in Control of Shunt Active Filtering Systems, 11th International Conference on Applied and Theoretical Electricity (ICATE), Craiova, ROMANIA, OCT 25-27, 2012, DOI:10.1109/ICATE.2012.6403399, pp.1-6
- Vi41. A. Pătrașcu, **Mihaela Popescu**, and V. Suru, CPC Theory Implementation for Active Filtering and its Limits, 11th International Conference on Applied and Theoretical Electricity (ICATE), Craiova, ROMANIA, OCT 25-27, 2012, DOI: 10.1109/ICATE.2012.6403441, pp. 1-6
- Vi42. **Mihaela Popescu**, A. Bitoleanu, V. Suru, A. Pătrașcu, High performance shunt active power filter, 7th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2011, 12-14 May 2011, Bucharest, ISSN: 2068-7966, Print ISBN: 978-1-4577-0507-6, INSPEC Accession Number: 12119022, pp. 1-6
- Vi43. A. Bitoleanu, **Mihaela Popescu**, M. Linca, Anamaria Mitran, Energetical performances analysis of PWM asynchronous motor and voltage inverter driving system, 7th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2011, 12-14 May 2011, Bucharest, ISSN: 2068-7966, Print ISBN: 978-1-4577-0507-6, INSPEC Accession Number: 12118922, pp. 1-6
- Vi44. A. Bitoleanu, **Mihaela Popescu**, M. Dobriceanu, F. Nastasoiu, DC-Bus Voltage Optimum Control of Three-Phase Shunt Active Filter System, 12th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2010, May, 20 - 22, 2010, Brașov Moeciu, România, ISBN: 978-1-4244-7019-8, pp. 538-543.
- Vi45. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, M. Linca, On the Cascade Control System Tuning for Shunt Active Filters Based on Modulus Optimum Criterion, European Conference on Circuit Theory and Design 2009 – ECCTD09, August 23-27, 2009, Antalya, TURKEY, DOI: 10.1109/ECCTD.2009.5274964 pp. 137-14039.
- Vi46. A. Bitoleanu, **Mihaela Popescu**, M. Piciu, Open Loop Estimation Models Used in Electrical Drives Systems, 7th IEEE International Symposium on Diagnostics for Electrical Machines, Power Electronics & Drives, Cargèse (France), August 31 - September 3, 2009, DOI: 10.1109/DEMPED.2009.5292767 pp.1-7
- Vi47. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, E. Subtirelu, O. D. Dobriceanu, Electrical Stations Real-Time Monitoring using Combined Protection and Control Systems, The 7th IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives - SDEMPED09, August 31 - September 3, 2009, Cargèse, FRANCE, DOI: 10.1109/DEMPED.2009.5292764, pp.1-6
- Vi48. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, Case Study Survey of Harmonic Pollution Generated by Railway Systems and Filtering Solutions, Proceedings of the 12th WSEAS International Conference on SYSTEMS, Heraklion, Greece, July 22-24, 2008, ISSN: 1790-2769, ISBN: 978-960-6766-83-1, pp. 210-215
- Vi49. A. Bitoleanu, **Mihaela Popescu**, M. Dobriceanu, Power Quality in Local Transportation Network – The Case Study, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2008, Ischia, Italy, 11th-13th June, ISBN: 978-1-4244-1664-6, DOI:10.1109/SPEEDHAM.2008.4581287, pp.84-89.
- Vi50. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, E. Subtirelu, S. Enache, Combined Protection and Control Equipment for Applications in the Medium-Voltage Area, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2008, Ischia, Italy, 11th-13th June, ISBN: 978-1-4244-1664-6, DOI: 10.1109/SPEEDHAM.2008.4581276, pp.860-865
- Vi51. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, S. Enache, E. Subtirelu, Automated Monitoring and Control System for Water Distribution Networks, 6th IASME/WSEAS International Conference on HEAT TRANSFER, THERMAL ENGINEERING and ENVIRONMENT (HTE'08), Rhodes, Greece, August 20-22, 2008, ISSN: 1790-5095, ISBN: 978-960-6766-97-8, pp. 178-183
- Vi52. A. Bitoleanu, **Mihaela Popescu**, M. Dobriceanu, F. Nastasoiu, Current Decomposition Methods Based on p-q and CPC Theories, 6th IASME/WSEAS International Conference on HEAT TRANSFER, THERMAL

ENGINEERING and ENVIRONMENT (HTE'08), Rhodes, Greece, August 20-22, 2008, ISSN: 1790-5095, ISBN:978-960-6766-97-8, pp. 202-207.

- Vi53. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, M. Linca, Power Quality Assessment via Matlab/Simulink-based Tool, Proceedings of The Seventh IASTED International Conference on Power and Energy Systems (EuroPES 2007), Palma de Mallorca, Spain, 29 -31 Aug. 2007, Editor: J. Milanovic , Hardcopy ISBN: 978-0-88986-689-8, No. 582, pp. 163-168
- Vi54. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, M. Linca, Energy-Efficient Inverter-Fed Induction Motor Driving System, The IEEE International Electric Machines and Drives Conference - IEMDC 2007, Antalya, Turcia, 03-05 Mai, 2007, Vol.2, DOI: 10.1109/IEMDC.2007.383683, pp. 1685-1688
- Vi55. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, S. Enache, G. Vladut, Method and System for Monitoring the Power Quality in Electrical Distribution Stations, The Aegean Conference on Electrical Machines and Power Electronics (ACEMP) and Electromotion- Bodrum, Turkey, 10-12 Sept. 2007, ISBN 978-975-93410-2-2, pp. 526-531.
- Vi56. A. Bitoleanu, **Mihaela Popescu**, M. Dobriceanu, A New Interpretation of the Phasor Theory on Powers Under Non-Sinusoidal Current, The Aegean Conference on Electrical Machines and Power Electronics (ACEMP) and Electromotion- Bodrum, Turkey, 10-12 Sept. 2007, ISBN 978-975-93410-2-2, pp. 738-742.
- Vi57. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, G. Vlăduț, Automated Data Acquisition System for Monitoring Electrical Stations, International Symposium on Power Electronics, 12th International Power Electronics and Motion Control Conference, Portoroz, Slovenia, Aug.30 – Sept.1, 2006, ISBN 1-4244-0121-6, pp.1271-1276.
- Vi58. A. Bitoleanu, **Mihaela Popescu**, M. Dobriceanu, Power Quality at the Input of DC Motor and Controlled Rectifier Driving Systems, 12th International Power Electronics and Motion Control Conference, Portoroz, Slovenia, Aug.30 – Sept.1, 2006, ISBN 1-4244-0121-6, pp.1345-1350.
- Vi59. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, G. Vlăduț, Automated Monitoring System for Environment Quality in Industrial Areas, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2006), Taormina, Italy, May 23nd -26th 2006, ISBN: 1-4244-0194-1, pp. S28-20 – S28-23.
- Vi60. A. Bitoleanu, **Mihaela Popescu**, M. Dobriceanu, About the Harmonics at the Input of DC Motor and Controlled Rectifier Driving Systems, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2006), Taormina, Italy, May 23nd -26th 2006, ISBN: 1-4244-0194-1, pp. S29-7 – S29-12.
- Vi61. S. Degeratu, B. Degeratu, **Mihaela Popescu**, Aspects Concerning the Performances of a New Insulation System for Low Voltage Asynchronous Motors, The 32nd Annual Conference of the IEEE Industrial Electronics Society (IECON'06), November 7-10, 2006, ISSN: 1553-572X, Proceedings ISBN: 1-4244-0136-4, pp. 1241-1244.
- Vi62. **Mihaela Popescu**, A. Bitoleanu, Power Quality at Input of the Static Converter and Induction Motor Driving Systems, The 2003 IEEE International Symposium on Electromagnetic Compatibility, Piscataway (EMC'03), NJ, USA, IEEE. Part Vol.1, 2003, ISBN 0 7803 7779 6, pp.555-558.
- Vi63. S. Ivanov, A. Câmpeanu, A. Bitoleanu, **Mihaela Popescu**, MATLAB-SIMULINK Library for AC Drives Simulation, SIMULATION'98, University of York, England, 30 September - 02 October 1998, ISBN: 0 85296 709 8, pp.195-200.

### VIII. PAPERS IN PROCEEDINGS INDEXED IN OTHER DATABASES

- Vi64. **Mihaela Popescu**, A. Preda, and V. Suru, Synchronous Reference Frame Method Applied in the Indirect Current Control for Active DC Traction Substation, Athens: ATINER'S Conference Paper Series, No: TRA2015-1552, ISSN: 2241-2891, pp. 1-14, Aug. 2015 (Scholar Google).
- Vi65. A. Preda, **Mihaela Popescu**, and M. Linca, Conservative Power Theory (CPT) Method Applied in the Indirect Current Control for Active D.C. Traction Substations, Athens: ATINER'S Conference Paper Series, No: TRA2015-1561, ISSN: 2241-2891, pp. 1-17, Aug. 2015 (Scholar Google).
- Vi66. A. Bitoleanu, **Mihaela Popescu**, and M. Dobriceanu, Possibilities of Using the Traction Transformer in Active DC Traction Substation, Athens: ATINER'S Conference Paper Series, No: TRA2015-1584, ISSN: 2241-2891, pp. 1-15, Sept. 2015 (Scholar Google).
- Vi67. A. Bitoleanu, **Mihaela Popescu**, and V. Suru, p-q power theory: Some theoretical and practical aspects, International School on Nonsinusoidal Currents and Compensation (ISNCC), 15-18 June 2010, Lagow, Poland, pp. 74 – 79, Print ISBN: 978-1-4244-5436-5 (SCOPUS, IEEE Xplore, Scholar Google).
- Vi68. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, E. Subtirelu, O.D. Dobriceanu, Monitoring, Protection and Control System for Medium Voltage Electrical Stations of 20/6 kV, 3rd International Symposium on Electrical Engineering and Energy Converters (ELS'2009), September 24-25, 2009, Suceava (Scholar Google).
- Vi69. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, On the Current Decomposition Based on Instantaneous Apparent Power Vector, Proceedings of The Tenth IASTED International Conference on Power and Energy Systems (PES 2008), Baltimore, Maryland, USA, April 16-18, 2008, Acta Press, Editor: E. Fuchs, ISBN: 978-0-88986-738-3, pp.120-125. (SCOPUS, Scholar Google).
- Vi70. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, G. Vladuț, Data acquisition equipment for energy measuring in electrical stations, IFAC Proceedings Volumes (IFAC PapersOnline) 1 (PART 1) , 2007, pp. 169-173

(SCOPUS).

- Vi71. G. Vladuț, M. Fetoiu, M. Dobriceanu, **Mihaela Popescu**, D.O. Dobriceanu, Tele-control in electrical stations, IFAC Proceedings Volumes (IFAC PapersOnline) 1 (PART 1), 2007, pp. 182-187 (SCOPUS).
- Vi72. S. Degeratu, **Mihaela Popescu**, N. Bizdoaca, A Performant Insulation System for the Stator Winding of the 6 kV Induction Motors, Proceedings of the 10th WSEAS International Conference on CIRCUITS, Vouliagmeni, Athens, Greece, July 10-12, 2006, CD ISSN: 1790-5117, CD ISBN: 960-8457-47-5, pp. 253-257. (Scholar Google).
- Vi73. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, Matlab-based Tool for Energetic Analysis of the Induction Motor Driving Systems, Proceedings of the 10th WSEAS International Conference on SYSTEMS, Vouliagmeni, Athens, Greece, July 10-12, 2006, CD ISSN: 1790-5117, CD ISBN: 960-8457-47-5, pp. 543-548 (Scholar Google, ACM).
- Vi74. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, G. Vlăduț, System for Monitoring the Energy Flow in Electrical Stations, Proceedings of the 5-th WSEAS International Conference on Power System and Electromagnetic Compatibility (PSE'05), Corfu, Greece, August 23-25, 2005, ISBN:960-8457-34-3, pp.1-5 (Scholar Google)
- Vi75. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, G. Vladut, Energy storage system for electrical stations, The XIV – th International Symposium on Electrical Apparatus and Technologies (SIELA 2005), Plovdiv, Bulgaria, Proceedings, Vol.I, 2-3 June 2005, ISBN 954-90209-4-0, pp. 76-81 (Scholar Google)
- Vi76. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, M. Lincă, The Usage a Programmable Logic Controller (PLC) for the Control of Great Capacity Excavators from Carbon Exploations, 11th International Power Electronics and Motion Control Conference (EPE-PEMC 2004), Riga, Latvia, A94448, Vol.6, 2004, ISBN 9984 32 070 7, pp.6/31-4 (ENGINEERING VILLAGE, INSPEC, Scholar Google).
- Vi77. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, System for Monitoring of the Energetic Activity, IEE MedPower 2004 (4th Mediterranean Conference on Power Generation, Transmission and Distribution), November 14-17, Lemesos, Cyprus, 2004, ISBN 9963-8275-1-9, pp. 107-112 (Scholar Google).
- Vi78. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, G. Vladut, Environment and Weather Factors Monitoring System, Proceedings of the 7th International Conference on Applied and Theoretical Electricity (ICATE 2004), Baile Herculane, Romania, October 14-15, 2004, ISBN 973-8043-554-4, pp.488-493 (Scholar Google).
- Vi79. A. Bitoleanu, **Mihaela Popescu**, M. Dobriceanu, Optimal Energetical Control of Asynchronous Motor and Static Converters Driving Systems, Symposium on Power Electronics, Electrical Drives, Automation & Motion (SPEEDAM'2004), Capri, Italy, 2004, ISBN 88-89389-00-1, pp. TID -29 – 32 (TIB).
- Vi80. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, M. Lincă, Energetic Data Acquisition Equipment in Industrial Processes, Symposium on Power Electronics Electrical Drives Automation & Motion (SPEEDAM 2004), Capri, Italy, 2004, ISBN 88-89389-00-1, pp. TID -5 – 8 (Scholar Google).
- Vi81. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, M. Lincă, The Dispatching of the Energetic Activity in Industrial Processes Using Data Acquisition Equipments, Proceedings of International Aegean Conference on Electrical Machines and Power Electronics, Istanbul, Turkey, May 2004, ISBN 975-93410-1-8, pp. 492-497 (Scholar Google).
- Vi82. M. Dobriceanu, A. Bitoleanu, **Mihaela Popescu**, Practical Aspects Concerning the Monitoring of the Machines' Drives in Industrial Processes, 12th International Symposium on Power Electronics (Ee 2003), Novi Sad, Serbia&Montenegro, 5-7 November 2003, ISBN 86-80249-74-2, pp. 49-52 (Scholar Google).
- Vi83. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, M. Lincă, Energetic influence of the saturation in electrical drive systems with induction motors and static converters (in French), Proceedings of the 4th International Conference on Electromechanical and Power Systems, 26-27 Sept. 2003, Chișinău, Vol.II, ISBN 9975-9704-9-4, pp. 241-244 (CiteSeer).
- Vi84. A. Bitoleanu, **Mihaela Popescu**, Apparent power minimization of the voltage and frequency static converter with asynchronous motor driving systems, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2002), Ravello, Italy, 11-14 June 2002, pp. B2-29 – B2-35 (GetInfo).
- Vi85. **Mihaela Popescu**, A. Bitoleanu, The influence of certain PWM methods on the quality of input energy of the asynchronous motor and frequency converters drives system, 10th International Power Electronics and Motion Control Conference (EPE-PEMC 2002), Cavtat & Dubrovnic, Croatia, September 09-11, 2002, ISBN: 953-184- 047-4, pp. P.1- P.6 (Scholar Google).
- Vi86. **Mihaela Popescu**, A. Bitoleanu, Input Power Factor of the Asynchronous Motor and Voltage Converter Driving Systems, IEE Med Power 2002 (3rd Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion), November 4-6, Athens, Greece, 2002, pp. 227-232 (ENGINEERING VILLAGE, INSPEC, Scholar Google).
- Vi87. **Mihaela Popescu**, A. Bitoleanu, M. Dobriceanu, O. Popescu, Control of position by sliding mode in electrical drive systems with dc motor and chopper (in French), Proceedings of the 6th International Conference on Applied and Theoretical Electricity (ICATE 2002), Craiova, Romania, Oct. 2002, ISBN 973-8043-169-9, pp. 137-142(CiteSeer).
- Vi88. A. Bitoleanu, **Mihaela Popescu**, Energetic optimization of the dc link circuit in the static converter and ac motors, Proceedings Aegean Conference on Electrical Machines and Power Electronics (ACEMP 2001), Kuşadası Turkey, June 27-29, 2001, ISBN 975-93410-0-X, pp.171-176 (ENGINEERING VILLAGE, INSPEC, Scholar Google).

- Vi89. A. Bitoleanu, D. Pîrjan, **Mihaela Popescu**, S. Ivanov, Fuzzy Control of DC Motor and Resonant Chopper System, The 9th International Conference and Exhibition on Power Electronics and Motion Control (EPE-PEMC 2000), 5- 7 September, Kosice, Slovak Republic, Vol. 6, Viena Publishing House, 2000, ISBN: 80-88922-23-2, pp.147- 151(ENGINEERING VILLAGE, INSPEC).
- Vi90. **Mihaela Popescu**, A. Bitoleanu, The energetical Interaction of the Electrical Drive with Induction Motor and Harmonics Elimination Voltage Source Converter with the Network, Proceedings of the 3rd International Symposium on Advanced Electromechanical Motion Systems (Electromotion 99), Patras, July 8-9, 1999, pp. 631- 635 (Scholar Google).
- Vi91. A. Bitoleanu, **Mihaela Popescu**, Energetical Analysis of the Electrical Drive with Induction Motor and Voltage Source Frequency Converter, Proceedings of the 8th International Power Electronics & Motion Control Conference (EPE-PEMC 1998), September 8-10, 1998, Prague, The Czech Republic, Vol. 6, ISBN 80-01-01832- 6, pp. 108-112 (Scholar Google).
- Vi92. A. Bitoleanu, S. Ivanov, **Mihaela Popescu**, The Characteristics of a Resonant Chopper and DC Motor Drive System, The 5-th International Conference on Optimization of Electrical and Electronic Equipments, may, 15- 17, 1996, Braşov, România, pp. 1297-1304 (IEEE Xplore).
- Vi93. Vi86. A. Bitoleanu, S. Ivanov, **Mihaela Popescu**, The Analysis and the Design of an Electrical Drive with DC Motor and Resonant Chopper Using SPICE, Proceedings of the 7-th International Power Electronics & Motion Control Conference (EPE-PEMC 1996), Budapest, Hungary, Vol. 2, September, 1996, pp.407-410 (ENGINEERING VILLAGE, INSPEC).

## **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 CNCSIS type A: „Theoretical and applicative research on the nonsinusoidal regime and active filtering” (in Romanian), No.27 GR / 11.05.2007, code CNCSIS 617, budget:173 000 lei, 2 years (2007-2008), director prof. **Mihaela Popescu**.
- Pn5. Grant CNCSIS type A: „Power quality in electrical drive systems with asynchronous motors and frequency static converters” (in Romanian), No. 33062/2004, code CNCSIS 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 (project 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.