

## LISTA DE LUCRĂRI ȘTIINȚIFICE ȘI CONTRACTE DE CERCETARE

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### I. TEZA DE DOCTORAT ȘI ABILITARE

**Aspecte energetice ale sistemelor de acționare cu motoare asincrone și convertoare statice indirecte de tensiune și frecvență**, domeniul Inginerie electrică, Universitatea din Craiova, 2001

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**Cercetări privind calitatea energiei electrice și soluții pentru creșterea eficienței energetice**, domeniul Inginerie electrică, 2016

Atestat abilitare, Ordin MENCNS 5335/29.09.2016

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- C10. Bitoleanu A., Ivanov S., **Popescu Mihaela**, *Convertoare statice*, Ed. INFOMED Craiova, 347 pagini, 1997, ISBN: 973-96940-2-0.
- C11. **Mihaela Popescu**, Alexandru Bitoleanu, Energy Efficiency Improvement in DC Railway Systems: The State of the Art, Newest Updates in Physical Science Research, Vol. 5, 26 May 2021, Page 66-106, <https://doi.org/10.9734/bpi/nupsr/v5/8457D>

### III. BREVETE DE INVENȚII

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- Vn4. **Mihaela Popescu**, A. Bitoleanu, Influența energetică, asupra rețelei de alimentare, a sistemului de acționare electrică cu motor asincron și convertor static de tensiune și frecvență cu momente de comutație prestabilite, Second International Conference on Electromechanical Systems (SIELMEC'99), Chișinău, 7-8 oct. 1999, pp.313-318.
- Vn5. A. Bitoleanu, **Mihaela Popescu**, Aspecte energetice ale sistemului de acționare cu motor de c.c. și redresor comandat cu factor de putere unitar, Prima conferință Internațională de Sisteme Electromecanice (SIELMEC'97), 16-18 Octombrie 1997, Chișinău, Editura Tehnică Chișinău, ISBN 9975-910-22-x, pp.54-57.
- Vn6. A. Bitoleanu, S. Ivanov, **Mihaela Popescu**, The Analysis of an Electrical Drive with DC Motor and Resonant Chopper, The 5-th Symposium on Automatic Control and Computer Science, Polytechnic Institute of Iași, October 26-27, 1995, pp. 352- 357.
- Vn7. A. Bitoleanu, **Mihaela Popescu**, The performances of an induction motor and tension fed inverter driving system, The 4-th Symposium on Automatic Control and Computer Science, Polytechnic Institute of Iași October 29-30, 1993.
- Vn8. A. Bitoleanu, **Mihaela Popescu**, Performances of an automatic speed control system using d.c. motor and state-oriented feedback - controlled rectifiers, A VIII-a Conferință Națională de Acționări Electrice, Iași, 22-24 octombrie, 1992, pp. A.3.1-A.3.10.
- Vn9. S. Ivanov, **Mihaela Popescu**, T. Bunu, Aspects concerning the design and the matching of the automatic speed control systems with DC motor and controlled rectifiers, with cascade or parallel control, A VIII-a Conferință Națională de Acționări electrice, Iași, 22-24 octombrie, 1992, pp. D.6.1-D.6.8.
- Vn10. P. Degeratu, A. Bitoleanu, **Mihaela Colțescu (Popescu)**, Starting dynamics of the driving system with synchronous motor and forced switching current inverter, A VII-a Conferință Națională de Acționări Electrice, Galați, 1990, pp. 149-157.

## XI. CONTRACTE DE CERCETARE

### Granturi/ proiecte naționale câștigate prin competiție, în calitate de director

- Pn1. Parteneriat pentru transfer de cunoștințe, Competiția POC 2015, „Parteneriate pentru transfer de cunoștințe, cercetare tehnologică și aplicată pentru soluții inovative de sisteme inteligente destinate creșterii eficienței energetice”, Proiect Nr. 76/08.09.2016, ID: P\_140\_196, Cod SMIS: 105687, Valoarea totală: 8.014.653 lei, durată: 5 ani, director prof.dr.ing. **Mihaela Popescu**
- Pn2. Proiect colaborativ de cercetare aplicativă, PNCDI - Programul "Parteneriate în domenii prioritare": „Sistem static multifuncțional de filtrare și regenerare pentru stații active de tracțiune în c.c.”, Partener INDA SRL Craiova, Nr. 42/2014, Valoarea proiectului: 805.000 lei, durată contractului: 30 luni (2014-2016), director prof.dr.ing. **Mihaela Popescu**.
- Pn3. Proiect POS CCE, Operațiunea 2.1.1: Proiecte de cercetare în parteneriat între universități/institute de cercetare-dezvoltare și întreprinderi, „Sistem pentru încălzirea prin inducție cu eficiența energetică ridicată 1”, Beneficiar SC INDAELTRAC SRL, Nr.258/28.12.2011, Valoarea proiectului: 832.830 lei, durată: 2 ani (2012-2013), director prof.dr.ing. **Mihaela Popescu**.
- Pn4. Grant CNCISIS tip A: „Cercetări teoretice și aplicative privind regimul deformant și filtrarea activă”, 27 GR / 11.05.2007, cod CNCISIS 617, nivel de finanțare 173 000 lei, durată: 2 ani (2007-2008), director prof.dr.ing. **Mihaela Popescu**.
- Pn5. Grant CNCISIS tip A: „Calitatea energiei în sistemele de acționare cu motoare asincrone și convertoare statice de tensiune și frecvență”, Nr. 33062/2004, cod CNCISIS 278, nivel de finanțare 49 000 RON, durată: 3 ani (2004-2007), director conf.dr.ing. **Mihaela Popescu**.

### Granturi/ proiecte internaționale câștigate prin competiție, în calitate de membru în echipă

- Pi1. Proiect PC6: DRESS - „Distributed and Redundant Electromechanical nose gear Steering System”, AST5-CT2006-030841, nivel de finanțare: 66.000 Euro, 2006-2009, director prof.dr.ing. Sergiu Ivanov.
- Pi2. Proiect SOCRATES-MINERVA: ELearning Tools for Electrical Engineering - 109789-CP-1-2003-1-BE-MINERVA-M (proiect European), nivel de finanțare 30.000 EUR, SOCRATES-MINERVA, perioada 2003-2005. Parteneri: Universite Catholique de Louvain, Louvain-la-Neuve, Belgia, Ecole des Hautes Etudes Industrielles (HEI), Lille, Franța, Instituto Superior Tecnico - Universidade Tecnica de Lisboa (IST), Lisboa, Portugalia, Universitatea din Craiova (UCV), România, 2 ani, membru în colectiv, director prof.dr.ing. Sergiu Ivanov.

### Granturi/ proiecte naționale câștigate prin competiție, în calitate de membru în echipă

- Pn6. Parteneriat pentru transfer de cunoștințe, Competiția POC 2015, „CERCETĂRI ȘI TRANSFER DE CUNOȘTINTE ÎN DOMENIUL TEHNOLOGIILOR ȘI INSTRUMENTELOR SOFTWARE PENTRU INFORMATIZAREA PROCESELOR INDUSTRIALE”, Proiect ID 40\_416, Nr. 61 din 05.09.2016, Valoare 5.549.356 lei, durată: 5 ani, Director prof.dr.ing. Dan Popescu
- Pn7. Parteneriat în domenii prioritare PNCDI: „Filtre active de generație a 3-a”, Nr. 21-010/14.09.2007, nivel de finanțare 1.055.915 lei, 3 parteneri, 3 ani (2007- 2010), director prof.dr.ing. Alexandru Bitoleanu, Șef proiect prof.dr.ing. **Mihaela Popescu**.
- Pn8. Proiect CDI Pol de competitivitate „Automotive Sud-Vest Oltenia”, „Cercetare industrială și dezvoltare experimentală vehicule acționate cu motoare electrice fără perii alimentate cu acumulatori litiu-ion pentru transport persoane-Gentle Electric”, P09004/1137/31.03.2014, cod SMIS 50140, 2 ani (2014-2015), nivel de finanțare 899.999 lei, director prof.dr.ing. Sorin Enache.
- Pn9. Proiect POS CCE Dezvoltarea structurilor de sprijin al afacerilor de interes național și internațional – Poli de competitivitate "Cercetări în vederea implementării unui sistem de mentenanță avansată pentru industria de automotive în scopul creșterii gradului de competitivitate", P09 002/1139/31.03.2014, 2 ani (2014-2015), nivel de finanțare 732760 lei, director prof.dr.ing. Lucian Mandache.
- Pn10. Parteneriat în domenii prioritare PNCDII: „Optimizarea funcționării hidrogeneratoarelor electrice prin modernizarea sistemelor de excitație în vederea creșterii eficienței energetice și competitivității lor”, 21-040/14.09.2007, 3 ani (2007- 2010), nivel de finanțare 209 000 lei, director prof.dr.ing. Alexandru Bitoleanu.
- Pn11. Proiect CNCISIS IDEI: „Sistem distribuit bazat pe tehnici de inteligență artificială pentru monitorizarea calității energiei electrice, supravegherea și controlul unei stații de transformare”, Nr.628/23.12.2008, 572.085 lei, 1 an, director prof.dr.ing. Mircea Dobriceanu.
- Pn12. Parteneriat în domenii prioritare PNCDII: „Sistem de monitorizare, protecție și control la distanță, în tehnologie wireless, pentru motoare electrice de joasă tensiune”, Nr. 22112/1/06.10.2008, 539.000 lei, 3 ani (2008-2010), director prof.dr.ing. Mircea Dobriceanu.
- Pn13. Proiect CEEX: „Cercetări privind sisteme de control și evaluare a nivelului de emisii în transporturi”, Nr. 245/11.10.2005, nivel de

finanțare 43.120 RON, finanțare MEC-program CEEX, 3 ani (2006-2008), director prof.dr.ing. Mircea Dobriceanu.

- Pn14. Proiect CALIST: „Stand de testare acționari electrice de c.c. conform cerințelor UE”, finanțare MEC, Nr. 4203/29.07.2003, partener ICMET Craiova, nivel de finanțare 120 mil ROL, 2 ani, director prof.dr.ing. Mircea Dobriceanu.
- Pn15. Grant CNCISIS: „Sisteme de acționare electrică cu motor asincron și DSP pentru modernizarea tracțiunii electrice urbane”, Nr.35254/2001, val. proiect 154.900 lei, 3 ani, director prof.dr.ing. Alexandru Bitoleanu.
- Pn16. Grant CNCISIS: „Redresoare cu performanțe energetice superioare, destinate sistemelor de acționare electrică”, Nr. 23/20/1998, val. proiect 35.000 lei, 1 an, director prof.dr.ing. Alexandru Bitoleanu.
- Pn17. Grant CNCISIS: „Convertoare statice cu comutație soft, destinate sistemelor de acționare electrică”, Nr. 3006/ 14C/ C10/1995, valoare 8012000 lei, 3 ani, director prof.dr.ing. Alexandru Bitoleanu.
- Pn18. Proiect MIS: „Sisteme de acționare electrică cu motoare de curent continuu și variatoare de tensiune continuă, cu comutație soft”, Nr. 3006/ 14C/ C10/1994, 1 an, director prof.dr.ing. Alexandru Bitoleanu.
- Pn19. Proiect MIS: „Servoacționări electrice performante în curent alternativ”, 19c/20/1993, 1 an, director conf.dr.ing. Gheorghe Popescu.

**Contracte de cercetare/consultanță, în calitate de membru în echipă (selectie)**

- Pn20. Contract cu agenți economici: „Studiu privind utilizarea filtrelor active pentru îmbunătățirea calității energiei”, 19/20.04.2004, 50.000 lei, Beneficiar SC SMART SA Sucursala Craiova, director prof.dr.ing. A. Bitoleanu.
- Pn21. Contract cu agenți economici: „Determinări experimentale pentru realizarea hărții de zgomot a municipiului Craiova și prelucrarea lor”, nr. 1314/121.03.2007, Beneficiar SC ENVIRO SRL Buc., 50.000 lei, director prof.dr.ing. A. Bitoleanu.
- Pn22. Cercetari privind stabilirea gradului de contaminare al uleiurilor industriale din transformatoarele de mare putere la care Hidroserv Slatina asigura mentenanta. Proiect 536/28.07.2009. Parti contractante: SC Hidroserv SA Slatina (beneficiar) si Universitatea din Craiova (executant). Perioada de derulare: 2009 – 2011. Valoare proiect: 14 000 Euro. (50.000lei) Director proiect: S. Degeratu, 3 ani
- Pn23. Cercetări privind determinarea unor caracteristici pentru sistemele de izolație ale generatoarelor electrice din fabricația Parti contractante: CUMMINS GENERATOR TECHNOLOGIES, Contract cu agenti economici, 9C/2012, 2012-2013, Valoare 13253 lei, Membrii: Rotaru Petre, Alboteanu Ionel Laurentiu, Manolea Gheorghe, Bizdoaca Nicu, Rizescu Sabin, Popescu Mihaela, 2 ani
- Pn24. Cercetări privind determinarea unor caracteristici pentru uleiurile industriale din transformatoarele de mare putere, Parti contractante: SC NET GROUP COMMUNICATIONS SRL, Pitesti (beneficiar) si Universitatea din Craiova (executant), 16C/2012, 2012-2014, Valoarea: 16913 lei, Membrii: Rotaru Petre, Manolea Gheorghe, Alboteanu Ionel Laurentiu, Bizdoaca Nicu, Popescu Mihaela., 2 ani

Februarie 2022

Prof. dr. ing. **Mihaela Popescu**