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Gradul didactic: Conferențiar

Instituția unde este titular: Universitatea din Craiova

Facultatea: Automatică, Calculatoare și Electronică

Departamentul: Automatică și Electronică

## L I S T A

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A. Teza de doctorat

UNIVERSITATEA DIN CRAIOVA

Titlul tezei de doctorat susținută în Decembrie 2010:

*“Contribuții la dezvoltarea sistemelor de achiziție și control distribuit pentru procese industriale”*,

*Conducător Științific: Prof. Univ. Dr. Ing. Vladimir Răsvan,*

*Domeniul: Automatică*

#### B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Dan Selișteanu, **Ion Marian Popescu**, Emil Petre, Monica Roman, Dorin Șendrescu, Bogdan Popa,

Book title: *Wastewater and Water Quality*,

Chapter title: *Distributed control systems for a wastewater treatment plant: architectures and advanced control solutions*,

August 2018, ISBN 978-953-51-6022-9, Book edited by: Dr. Taner Yonar

DOI: 10.5772/intechopen.74827. Available from:

<https://www.intechopen.com/books/wastewater-and-water-quality/distributed-control-systems-for-a-wastewater-treatment-plant-architectures-and-advanced-control-solu>

2. **Ion-Marian Popescu**,

*Sistem de prelucrare a vibrațiilor pentru mentenanță predictivă și modelarea în buclă închisă a unor procese complexe*,

2015, Editura Sitech, 150 pagini, ISBN 978-606-11-4947-6;

#### C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. **Ion Marian Popescu**, Dan Popescu, Răzvan Prejbeanu, Bogdan Popa, Ion Voinea,  
*A DFT Computation Method for the Real-Time Processing of Vibration Signals at FPGA Circuit Level*, 2020, 21th International Carpathian Control Conference (ICCC), Print on Demand(PoD)  
ISBN:978-1-7281-1952-6, DOI: 10.1109/ICCC49264.2020.9257281  
<https://ieeexplore.ieee.org/abstract/document/9257281/authors#authors>

2. Dan Selișteanu; Emil Petre; Răzvan Prejbeanu; **Ion Marian Popescu**; Sorin Mehedințeanu, *Software Solutions for Simulation, Monitoring and Data Acquisition in Wastewater Treatment Plants*, 2020, 21th International Carpathian Control Conference (ICCC), Print on Demand(PoD) ISBN:978-1-7281-1952-6, DOI: 10.1109/ICCC49264.2020.9257268  
<https://ieeexplore.ieee.org/document/9257268>
3. Răzvan Prejbeanu ; **Ion Marian Popescu**, *Modelling and Simulation of Autonomous Systems with Voltage Inverters, Output Filters and Asynchronous Motors*, 2019, 20th International Carpathian Control Conference (ICCC), Krakow-Wieliczka, Poland, DOI: 10.1109/CarpathianCC.2019.8766062; ISBN:978-1-7281-0701-1; **WOS:000490570500005** [ISI Proc.]
4. **Ion Marian Popescu**, Bogdan Popa, Rasvan Prejbeanu, Ionete Cosmin, *Evaluation of Parallel and Real-Time Processing Performance for Some Vibration Signals Using FPGA Technology*, 2018, 19th International Carpathian Control Conference (ICCC), ISBN: 978-1-5386-4762-2; **WOS:000439260500069** [ISI Proc.]
5. Bogdan Popa, **Ion Marian Popescu**, Dan Popescu, Eugen Bobașu, *Real-time Monitoring System of a Closed Oven*, 2018, 19th International Carpathian Control Conference (ICCC), ISBN: 978-1-5386-4762-2; **WOS:000439260500010** [ISI Proc.]
6. Răzvan Prejbeanu, **Ion Marian Popescu** *Intelligent and Suitable Transportation System with Asynchronous Motor and Li-Ion Battery*, 2018, 19TH INTERNATIONAL CARPATHIAN CONTROL CONFERENCE (ICCC), ISBN: 978-1-5386-4762-2; **WOS:000439260500114** [ISI Proc.]
7. Popa Bogdan, **Popescu Marian**, *The Analysis Parameters for the AC Engine for Actuating of a Grinding Wheat System*, 2017, 18TH INTERNATIONAL CARPATHIAN CONTROL CONFERENCE (ICCC) ISBN: 978-1-5090-4862-5; **WOS:000426954400074** [ISI Proc.]
8. **Ion-Marian Popescu**, *Acquisition and processing system of vibration signals, in real time and simultaneously, based on FPGA technology*, 2016, 20th international conference on system theory, control and computing (ICSTCC), ISBN:978-1-5090-2720-0, ISSN: 2372-1618; **WOS:000391609900050** [ISI Proc.]
9. **Ion Marian Popescu**, *Real-time acquisition and processing of a vibration signal*, 2014, 14th International Multidisciplinary Scientific GeoConference SGEM 2014, www.sgem.org, SGEM2014 Conference Proceedings, ISBN 978-619-7105-10-0 / ISSN 1314-2704, DOI: 10.5593/SGEM2014/B21/S7.039;

**WOS:000371297900039** [ISI Proc.]

10. **Marian Popescu**, Adrian Runceanu, Ilie Borcosi,  
*Simulating the facial expressions of a biomimetic structures*,  
2013, 13th SGEM GeoConference on Informatics, Geoinformatics And Remote Sensing,  
www.sgem.org, SGEM2013 Conference Proceedings,  
ISBN 978-954-91818-9-0 / ISSN 1314-2704; DOI:10.5593/SGEM2013/BB2.V1/S07.030;  
**WOS:000349067200030** [ISI Proc.]
11. Ilie Borcosi, **Ion Marian Popescu**, Adrian Runceanu,  
*The positioning of a ball on plate*,  
2013, 13th SGEM GeoConference on Informatics, Geoinformatics And Remote Sensing,  
www.sgem.org, SGEM2013 Conference Proceedings,  
ISBN 978-954-91818-9-0 / ISSN 1314-2704; DOI:10.5593/SGEM2013/BB2.V1/S07.033;  
**WOS:000349067200033** [ISI Proc.]
12. **Ion Marian Popescu**, Adrian Runceanu, Alina Dincă,  
*Study of control system "rotary inverted pendulum" designed by lqr method and lyapunov direct method*,  
2012, 12th International Multidisciplinary Scientific GeoConference, www.sgem.org, SGEM2012  
Conference Proceedings/ ISSN 1314-2704, DOI: 10.5593/SGEM2012/S10.V3009;  
**WOS:000348533800009** [ISI Proc.]
13. Alina Dinca, Dana Lavinia Nebunu, **Ion Marian Popescu**,  
*Online monitoring and diagnosis of the liquid level in a tank through thermographic image processing*, 2012, 12th International Multidisciplinary Scientific GeoConference, www.sgem.org,  
SGEM2012 Conference Proceedings/ ISSN 1314-2704, June,  
DOI: 10.5593/SGEM2012/S10.V3025;  
**WOS:000348533800025** [ISI Proc.]
14. Adrian Runceanu, **Ion Marian Popescu**,  
*Another partitioning tool for vertical fragmentation in distributed databases*,  
2012, 12th International Multidisciplinary Scientific GeoConference, www.sgem.org, SGEM2012  
Conference Proceedings, DOI: 10.5593/SGEM2012/S10.V3004;  
**WOS:000348533800004** [ISI Proc.]

**D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**

1. **Ion Marian Popescu**,  
*The impact of increased stability and efficiency through automatic control system for a steam power plant*, Joint International Conference of Doctoral Students and Post-Doctoral Researchers, ACTA Universitatis Cibiniensis, Volume 67, Issue 1, Pages 80–85, September 2015, ISSN (Online) 1583-7149, DOI: 10.1515/aucts-2015-0068,  
DOI: <https://doi.org/10.1515/aucts-2015-0068> ;  
<https://content.sciendo.com/view/journals/aucts/67/1/article-p80.xml>
2. **Ion Marian Popescu**,

*Necessity Implementation of advanced control algorithms in the complex processes in the energy industry*, Annals of the University of Craiova, Series: *Automation, Computers, Electronics and Mechatronics*, Editura Universitaria, Craiova, România, ISSN 1841-0626, pp.39-44, Vol. 11 (38), No. 1, 2014,

[http://ace.ucv.ro/anale/2014\\_vol1/Annals\\_of\\_UCV\\_vol11\\_no1\\_2014.pdf](http://ace.ucv.ro/anale/2014_vol1/Annals_of_UCV_vol11_no1_2014.pdf)

3. **Popescu Ion Marian**, Borcosi Ilie, Runceanu Adrian,  
*Implementation of a process control structures Rotary inversed pendulum, designed by LQR method*, Annals of the "Constantin Brancusi" University from Targu-Jiu, Engineering Series, ISSN 1842-4856, Volume no.3/2012, pg.136-150.

[http://www.utgjiu.ro/revista/ing/pdf/2012-3/13\\_Marian%20POPESCU.pdf](http://www.utgjiu.ro/revista/ing/pdf/2012-3/13_Marian%20POPESCU.pdf)

#### **E. Brevete obținute în întreaga activitate**

1. *DEVICE AND METHOD FOR PROTECTING FULL WAVE POLYPHASE OR MONOPHASE RECTIFIERS IN CASE OF NON-FUNCTIONING OF SEMICONDUCTOR DEVICES INCLUDED THEREIN*,

Patent Number(s): RO123042-B1, Inventor(s): BORCOSI C A, BORCOSI I, CERCEL C, COZMA V, DINCA A, GROFU F, NEBUNU D L, OLARU O, **POPESCU I M**, POPESCU L G, RUNCEANU A, VILAN C C.

Derwent Primary Accession Number: 2010-K02713

2. *DIGITAL DEVICE FOR PROTECTING SEMICONDUCTOR DEVICES WITHIN RECTIFIERS TO THE LACK OF PHASE AND NON-FUNCTIONING*,

Patent Number(s): RO126981-A0; RO126981-B1, Inventor(s): BORCOSI C A, BORCOSI I, CRUCERU M, DIACONU B M, GORUN A, GROFU F, NICULESCU G, POPESCU C, **POPESCU I M**, POPESCU L G, RACOCEANU C, BORCOSI C, DIACONU B,

Derwent Primary Accession Number: 2012-D53479

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**Semnătura:**