Universitatea Tehnică din Cluj-Napoca
Departamentul Electroenergetica si Management
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Listă lucrări

A – teza de doctorat

„CONTRIBUŢII ÎN APLICAŢII ALE ALGORITMILOR AVANSAŢI DE CONTROL AUTOMAT ÎN REGLAREA CONCENTRAŢIEI ŞI A pH-ULUI”
conducător ştiinţific : Prof.dr.ing. Ioan Nașcu
Universitatea Tehnica din Cluj-Napoca
Susţinere publică: *2013*

B – Activitate didactică

b1) lucrări didactice publicate la edituri recunoscute

1. Cosmin Dărab, ”Metode de modelare și reglare automată a pH-ului”, editutra Efes 2016, ISBN 978-606-526-226-3.

b2) / lucrări de laborator redactate şi realizate practic

1. Antoniu Claudiu Turcu, Cosmin Dărab, ” Materiale electrotehnice”, Editura Mediamira 2017, ISBN 978-973-713-358-8

C – Lucrări indexate ISI/BDI

c1) Articole in extenso în reviste cotate şi în volume proceedings indexate ISI Thomson-Reuters:

1. Dărab Cosmin, Hodrea Ramona, Ruben Crișan, Ioan Nașcu, ” Modeling and Internal Model Control Strategy of pH Neutralization Process”, 20th Telecommunications Forum, pp. 1579-1582, WOS:000316626800372, ISBN:978-1-4673-2984-2.
2. Cosmin Dărab, Ruben Crișan, Nașcu Ioan, ” Modeling and validation of nonlinear time-varying pH industrial processes”, IEEE International Conference on Automation, Quality and Testing, Robotics, 2012, pp. 114-117, WOS:000400227100020, ISBN:978-1-4673-0702-4.
3. Hodrea Ramona, Nascu Ioan, Cosmin Dărab, ” Modeling of Drug Delivery in General Anesthesia”, 20TH TELECOMMUNICATIONS FORUM (TELFOR),pp.891-894, **DOI:** 10.1109/TELFOR.2012.6419351, WOS:000316626800212.

4. Birs Isabela; Nascu Ioana;Darab Cosmin;Nascu Ioan, ” Modelling and calibration of a conventional activated sludge wastewater treatment plant”, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pp.257-262, WOS:000390997900043, ISBN:978-1-4673-8690-6.
5. Pop Cristina Ioana; Ionescu Clara, De Keyser Robin; Dulf Eva; Valean Honoriu; Neaga Adrian; Darab Cosmin, ” An Alternative EPSAC Based Control Strategy for Multivariable Time Delay Processes”, IEEE International Conference on Automation, Quality and Testing, Robotics, 2012, pp. 150-155, WOS:000400227100027, ISBN:978-1-4673-0702-4.
6. Crisan Ruben, Andrei Trombitas, Nascu Ioan, Darab Cosmin, ” Wastewater Treatment Plant in a milk processing factory”, IEEE International Conference on Automation, Quality and Testing, Robotics, 2012, pp.612-615, WOS:000400227100111, ISBN:978-1-4673-0702-4.

c2) Articole publicate la conferinţe indexate în baze de date internaţionale de referinţă în domeniul tehnic (DBLP, ACM, IEEE, SCOPUS):

1. Cosmin Dărab, Ruben Crişan, Ioan Naşcu, Modeling and robust control of pH neutralisation process, Automation Computers Applied Mathematics, vol 20 (2011), http\\:www.acam.ro.

2. Cosmin Dărab, Ruben Crişan, Grigore Vlad, Ioan Naşcu, „An approach for industrial wastewater treatment processs”, Environmental Legislation, Safety Engineering and Disaster Management 9th edition, ELSEDIMA 2012, http:\\www.elsedima.conference.ubbcluj.ro, vol.5, issue 2, pag.234-238.

3. Grigore Vlad, Ruben Crişan, Bogdan Mureşan, Ioan Naşcu, Cosmin Dărab, Development and Application of a Predictive Adaptive Controller to a Wastewater Treatment Process, 2010 IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2010, THETA 17th edition, ISBN 978-1-4244-6722-8, May 28-30 2010, Cluj-Napoca, Romania, http\\:www.aqtr.ro.

4. R. Both, E.-H. Dulf, A. O. Neaga, C. P. Dărab, Robust Control of the 15N Isotope Separation Column, IEEE 7th International Symposium on Applied Computational Intelligence and Informatics SACI 2012, 24-26 May, Timişoara, Romania, ISBN : 978-1-4673-1012-3, DOI: 10.1109/SACI.2012.6249969.

5. Ruben Crişan, Cosmin Dărab, Ioan Naşcu, „Wastewater treatment plant identification with pseudorandom binary sequence signals”, Environmental Legislation, Safety Engineering and Disaster Management 9th edition, ELSEDIMA 2012, http:\\www.elsedima.conference.ubbcluj.ro.

6. Cosmin Darab, Antoniu Turcu, Internal model control for MPPT of a solar PV system, International Conference on Modern Power Systems (MPS), 2017, DOI: 10.1109/MPS.2017.7974464, Electronic ISBN: 978-1-5090-6565-3.

7. Cosmin Darab; Antoniu Turcu; S. Stefanescu; A. Botezan; Constantin Pica; Sorin Pavel; Sarah Abdourraziq, ” Robust control of MPPT of a PV cell”, Electromechanical and Power Systems (SIELMEN), 2017, ISBN: 978-1-5386-1846-2.

8. Sarah Abdourraziq; Mohamed Amine Abdourraziq; Cosmin Darab, ” Photovoltaic water pumping system application in Morocco”, 2017 International Conference on Electromechanical and Power Systems (SIELMEN), DOI: 10.1109/SIELMEN.2017.8123331, Electronic ISBN: 978-1-5386-1846-2.

9. M. A. Abdourraziq; S. Abdourraziq; M. Maaroufi; Mouhayedine Tlemcani; Cosmin Darab, ” Experimental results of photovoltaic emulator systems”, 2017 International Conference on Electromechanical and Power Systems (SIELMEN), DOI: 10.1109/SIELMEN.2017.8123329, Electronic ISBN: 978-1-5386-1846-2.

10. M. A. Abdourraziq; S. Abdourraziq; M. Maaroufi; Cosmin Darab; Cosmin Darab, ” An improved fuzzy slide mode control applied to PV systems”, 2017 International Conference on Electromechanical and Power Systems (SIELMEN), DOI: 10.1109/SIELMEN.2017.8123330, Electronic ISBN: 978-1-5386-1846-2.

11. Sarah Abdourraziq; Mohamed Amine Abdourraziq; Cosmin Darab, ” Maximum power point tracking applied to PV systems under partial shading conditions”, 2017 International Conference on Electromechanical and Power Systems (SIELMEN), Pages: 286 – 290, DOI: 10.1109/SIELMEN.2017.8123334, Electronic ISBN: 978-1-5386-1846-2.

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