

Universitatea Tehnică din Cluj-Napoca
Facultatea de Automatică și Calculatoare
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LISTA

lucrărilor științifice în domeniul disciplinelor din postul didactic

A – teza de doctorat

Titlu teză: „Controlul proceselor metalurgice de producere a țevilor din oțel fără sudură. Aplicație în cadrul firmei Tenaris Silcotub Zalău”,

Conducător științific: Prof. dr. ing. Mihail Abrudean, autor: prep. ing. Vlad Mureșan
Universitatea Tehnică din Cluj-Napoca

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B – Cărți și capitole în cărți (2001 - 2017)

CĂRȚI

1. Tiberiu Coloși, Mihail Abrudean, Mihaela Ungureșan, **Vlad Mureșan**, “Numerical simulation of distributed parameter processes”, Editura SPRINGER, 2013, 363 pagini ISBN: 978-3-319-00013-8.
2. Tiberiu Coloși, Mihail Abrudean, Mihaela-Ligia Ungureșan, **Vlad Mureșan**, “Examples of numerical Simulation for systems with distributed and lumped parameters through the Mpxd method with approximating solutions”, Editura UTPRESS, Cluj-Napoca, Romania, 2013, 98 pagini, ISBN: 978-973-662-847-4 .

CAPITOLE DE CARTE

1. Tiberiu Coloși, Mihail Abrudean, **Vlad Mureșan**, “Cap. 27. Controlul Proceselor cu Parametri Distribuți”, din volumul II “Automatica”, Editor coordonator Ioan Dumitrache, Editor Toma Dragomir, Editura Academiei Române, București, România, 2013, pag. 603-657, ISBN: 978-973-27-1882-7.
2. **Vlad Mureșan**, Honoriu Valean, Liviu Miclea, Mihai Abrudean, “Automatizarea unui cuptor cu vatra rotitoare”, capitol (cap. 4) în cartea “Rețea națională de centre pentru dezvoltarea programelor de studii cu rute flexibile și a unor instrumente

- didactice la specializarea de licență și masterat, din domeniul Ingineria Sistemelor”, Editura CONSPRESS, Coordonator Mariana Marinescu, București, 2013, pag. 28-49, ISBN 978-973-100-313-9.
3. Horațiu Colosi, Dan Colosi, **Vlad Mureșan**, Marius Roman, “Radiation Protection in Medical Imaging” capitol (cap. 4) în cartea “Medical Imaging”, Publisher: InTech, Capitle publicate 22 Decembrie, 2011, 412 pagini, ISBN 978-953-307-774-1.

LUCRĂRI DIDACTICE

1. **Vlad Mureșan**, „Conducerea proceselor industriale Îndrumător de laborator”, Editura U.T. PRESS, Cluj-Napoca 2011, 134 pagini, ISBN 978-973-662-663-0.
2. **Vlad Mureșan**, Mihail Abrudean, „Conducerea proceselor industriale – Curs didactic”, Editura Galaxia Gutenberg, Cluj-Napoca 2017, 181 pagini, ISBN 978-973-141-699-1.

C – Lucrări indexate ISI/BDI (2000 - 2017)

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

Reviste:

1. C. Lungoci, D. Moga, **V. Mureșan**, D. Petreus, N. Stroia, R. Moga, M. Munteanu, I. Raus, V. Muntean, A. I. Mironiuc, “Hyperthermic Intraperitoneal Chemotherapy Approach Based on Cyber-Physical System Paradigm”, Journal of Control Engineering and Applied Informatics (CEAI Journal), vol. 17, nr. 3, septembrie 2015, pp. 50-59.
2. **Vlad Mureșan**, Mihail Abrudean, Mihaela-Ligia Ungureșan, Tiberiu Coloși, “Feed-forward Control of a Residual Water Blunting Process”, Journal of Control Engineering and Applied Informatics (CEAI), vol 16, nr. 4, 2014, pag. 42-51, ISSN: 1454-8658.
3. **Vlad Mureșan**, Mihail Abrudean, Mihaela-Ligia Ungureșan, Tiberiu Coloși, “Cascade Control of a Residual Water Blunting System”, Advances in Electrical and Computer Engineering (AECE Journal), vol. 14, nr. 2, 2014, pag. 135-144, ISSN: 1582-7445.
4. **Vlad Mureșan**, Mihail Abrudean, “Temperature Simulation in the Furnace with Rotary Hearth, using Taylor Series“, Journal of Control Engineering and Applied Informatics (CEAI), Vol. 12, Nr. 4, 2010, pp. 51-59, ISSN 1454-8658.

c2) Studii publicate la reviste și conferințe indexate în baze de date internaționale de referință în domeniul ingineriei sistemelor (ISI, DBLP, ACM, IEEE, SCOPUS)

Reviste:

1. Iulia Clitan, **Vlad Mureșan**, Mihail Abrudean, Daniel Moga, Corneliu Lungoci, “Hyperthermic Intraperitoneal Chemotherapy Equipment’s Temperature Control Structure Design using Model Based Techniques”, Scientific Bulletin of The Politehnica University of Timisoara, 60 (74), 2015, pp. 47-56.
2. Iulia Clitan, **Vlad Muresan**, Mihail Abrudean, “Design of a discrete controller using the Dahlin algorithm for a direct-current motor speed control”, Journal of Computer Science and Control Systems (JCSCS), vol. 7, no. 2, Ed. Universității din Oradea, 2014, pp. 13-18, ISSN 1844-6043.
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5. **Vlad Mureșan**, Mihail Abrudean and Tiberiu Colosi “Temperature Simulation of the Billets from a Furnace with Rotary Hearth, Using Taylor Series” Buletinul științific al Universității „POLITEHNICA“ din Timișoara, România, Seria AUTOMATICĂ ȘI CALCULATOARE, Editura POLITEHNICA, ISSN 1224-600X, Vol. 56(70), Nr. 4, Decembrie 2011, pag. 167-176.
6. **Vlad Mureșan**, “Numerical Simulation of the Temperature in a Rotary Hearth Furnace, using Taylor Series” Buletinul științific al Universității „POLITEHNICA“ din Timișoara, România, Seria AUTOMATICĂ ȘI CALCULATOARE, Editura POLITEHNICA, ISSN 1224-600X, Vol: 56(70) Nr: 2 / Iunie 2011, pag. 65-74.
7. **Vlad Mureșan**, Mihail Abrudean, “Experimental Identification and Numerical Simulation of Thermal Processes Associated with the Furnace with Rotary Hearth”, ACAM (Automation Computers Applied Mathematics), vol. 18(2009), Nr. 1, Editura MEDIAMIRA, pag. 31-43, ISSN: 1221-437X.

Conferințe:

1. Mihaela-Ligia Ungureșan, **Vlad Mureșan**, Mihail Abrudean, Honoriu Vălean, Iulia Clitan, Cristian Bondici, Adela Pușcașiu, Alexandra Fanca, Ovidiu Stan, “Advanced Control of a Hydroelectric Power Plant”, 21st International Conference on System

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2. Mihaela-Ligia Ungureșan, **Vlad Mureșan**, “Fast Interaction of Cu²⁺ with S₂O₃²⁻ in Aqueous Solution”, CEEC-TAC 4, Central and Eastern European Conference on Thermal Analysis and Calorimetry, 28-31 aug. 2017, Chișinău, Rep. Moldova, Academica Greeifswald, PS1-67, ISBN: 976-940237-47-7, p. 247.
 3. Mihaela-Ligia Ungureșan, **Vlad Mureșan**, Delia Gligor, Codruța Varodi, “Adsorption Process of Phenothiazine Solution in Dimethyl Sulfoxide on graphite electrodes”, CEEC-TAC 4, Central and Eastern European Conference on Thermal Analysis and Calorimetry, 28-31 aug. 2017, Chișinău, Rep. Moldova, Academica Greeifswald, PS1-68, ISBN: 976-940237-47-7, p. 248.
 4. **Vlad Mureșan**, Mihail Abrudean, Mihaela-Ligia Ungureșan, Iulia Clitan, Diana Sas, “Mathematical Modeling of a Three Separation Columns Cascade for ¹³C Isotope Enrichment”, 12-th edition of the International Conference on Aerospace, Robotics, Mechatronics, Mechanical Engineering, Manufacturing systems, Neurorehabilitation and Bioengineering (OPTIROB 2017), 29 Iunie-3 Iulie, 2017, Jupiter, România, în curs de publicare INSPEC (International Journal of Modeling and Optimization).
 5. Olimpia Bunta, **Vlad Mureșan**, Tiberiu Coloși, “Upper central incisor orthodontic movement approximation through mathematical simulation programs”, 12-th edition of the International Conference on Aerospace, Robotics, Mechatronics, Mechanical Engineering, Manufacturing systems, Neurorehabilitation and Bioengineering (OPTIROB 2017), 29 Iunie-3 Iulie, 2017, Jupiter, România, în curs de publicare INSPEC (International Journal of Modeling and Optimization).
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 7. Olimpia Bunta, **Vlad Mureșan**, Diana Sas, Tiberiu Coloși, “Mathematical formalisms used in the orthodontic dynamics”, 2017 14th International Conference on Engineering of Modern Electric Systems (EMES 2017), 1-2 Iunie, 2017, Oradea, România, pp. 196-199.
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11. Mihaela Unguresan, **Vlad Mureșan**, Mihail Abrudean, Iulia Clitan “Advanced Temperature Control in a Heat-Treatment Furnace”, Proceedings of the 4th International conference on Control, Mechatronics and Automation (ICCMA), 7-11 Decembrie, 2016, Barcelona, Spania, pp. 140-146.
12. **Vlad Mureșan**, Mihail Abrudean, Iulia Clitan, Mihaela-Ligia Ungureșan, Tiberiu Coloși, “Temperature Control in an Annealing Furnace, Using the IMC Strategy”, ICMERA 2016, Applied Mechanics and Materials, Vol. 859, pp. 124-128.
13. Iulia Clitan, **Vlad Muresan**, Mihail Abrudean, Diana Sas, “Optimization of the Casting Length of Billets and Computation of Minimum Number of Steel Batches”, Proceedings of 7th International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Neurorehabilitation and Human Motricities (ICMERA 2016), 4-6 Noiembrie, 2016, București, România, Applied Mechanics and Materials, vol. 859, 2017, pp. 177-182, ISSN 1662-7482.
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21. **Vlad Mureșan**, Mihail Abrudean, Mihaela-Ligia Ungureșan, Iulia Clitan, Tiberiu Coloși, “Control of the 18O isotope separation process”, 2016 IEEE 11th International Symposium on Applied Computational Intelligence and Informatics (SACI 2016), 12-14 Mai, 2016, pp. 283 – 288.
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Data

31.08.2017

Semnătura

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