

Nume Prenume: Bobașu Eugen

Gradul didactic: Profesor

Instituția unde este titular: Asociat

Facultatea: Automatica, Calculatoare si Electronica

Departamentul: Automatica si Electronica

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Conducerea sistemelor electrohidraulice, Universitatea din Craiova, domeniul Automatică, conducător științific: prof. dr. ing. Vladimir Răsvan, susținere publică în 21 februarie 1997, Diplomă de doctor: Seria P, Nr. 0002336 / 36/ 5.07.1997, Ordinul M.I. nr. 3991/02.06.1997.

B. Cărți si capitole în cărți publicate în ultimii 10 ani

Bobașu E., Roman M., Șendrescu D., 2010, *Identificarea sistemelor. Îndrumar de laborator.*, Ed. Universitaria, Craiova, ISBN: 978-606-510-977-3, 170 pag.

Selișteanu D., Petre E., Popescu D., **Bobașu E.**, 2008, Nonlinear Control Strategies for Bioprocesses: Sliding Mode Control versus Vibrational Control, in: Automation and Robotics (J. M. Ramos Arreguin Ed.), Chap. 12, pp. 201-222, I-Tech Education and Publication, ARS, Vienna, Austria, ISBN 978-3-902613-41-7.

Bobașu E., 2002, *Sisteme hidraulice. Modelare și conducere*. Ed. Universitaria, Craiova, ISBN: 973-8043-141-1, 260 pag.

Bobașu E., 1997, *Echipamente fluidice pentru sisteme automate*, Reprografia Universității din Craiova.

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

1. Danciu D., Popescu D., **Bobasu E.**, “Neural Networks-Based Computational Modeling of Bilinear Control Systems for Conservation Laws: Application to the Control of Cogeneration”, *IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS*, Volume: 54 Issue: 6 Pages: 6498-6507, WOS:000447827700089, ISSN: 0093-9994, eISSN: 1939-9367 6498-6507 Published: NOV-DEC 2018.
2. **Bobașu E.**, Popescu D., Ivanov S., “Robust Control Law Design for Synchronous Motor Using Feedback Linearization Method”, *Annals of the University of Craiova, Series Automation, Computers, Electronics and Mechatronics*, pp. 15-20, Vol.7(34), Nr. 1, 2010, ISSN 1841-0626.
3. Roman M., **Bobașu E.**, Iancu E., Șendrescu D., “On Bond Graph modelling of thermo-chemical processes”, *Acta Montanistica Slovaca*, Ročník 15 (2010), číslo 1, pp. 33-37, ISSN 1335-1788. Popescu D., Sendrescu D., **Bobașu E.**, “Modelling and robust control of a flexible beam Quanser experiment”, *Acta Montanistica Slovaca*, vol. 13, no. 1, pp. 127-135, 2008, ISSN 1335-1788.
4. Roman, M., **Bobașu E.**, D. Selișteanu, D. Șendrescu, “Bond Graph Modelling of Chemical Reaction Based Processes”, *International Review on Modelling and Simulations*, Vol. 3, No. 1, pp. 108-115, February 2010, ISSN 1974-9821, http://www.praiseworthyprize.com/IREMOS-latest/IREMOS_vol_3_n_1.html.

5. Roman M., **Bobașu E.**, Petre E., Selișteanu D., Sendrescu D., “Pseudo Bond Graph modeling of some prototype bioprocesses”. *Journal of Control Engineering and Applied Informatics*, pp. 22-29, Vol. 11, No. 2, 2009, ISSN 1454-8658.
6. **Bobașu E.**, Roman M., Sendrescu D., “Bond Graph Modelling and Nonlinear Control of an Inverted Pendulum”. *Annals of the University of Craiova, Series Automation, Computers, Electronics and Mechatronics*, pp. 1-6, Vol.6(33), Nr. 2, 2009, ISSN 1841-0626.
7. Roman M., **Bobașu E.**, Sendrescu D., “Bond Graph Modelling of a Quanser Flexible Link Experiment”. *Annals of the University of Craiova, Series Automation, Computers, Electronics and Mechatronics*, pp. 108-116, Vol.4(31), No. 1, 2007, ISSN 1841-0626.
8. Roman M., **Bobașu E.**, “The Study of Controllability and Observability of Bond Graphs Models”. *Annals of the University of Craiova, Series: Autom., Computers, Electronics and Mechatronics*, Vol. 2(29), pp. 97-104, No. 1, 2005, ISSN 1841-0626.
9. Roman M., **Bobașu E.**: “Structural properties of bond graph models”. *Transactions of the VŠB – Technical University of Ostrava, Mechanical Series*, Vol. 2, pp. 137-143, 2006, ISBN 80-248-1211-8, ISSN 1210-0471.
10. **Bobașu E.**, Popescu D., Roman M., “On nonlinear control of the hydraulic servomechanisms”. *Transactions of the VŠB – Technical University of Ostrava, Mechanical Series*, Vol. 2, pp. 19-25, 2006, ISBN 80-248-1211-8, ISSN 1210-0471.

Conferințe (selecție)

11. Sendrescu D., Petre E., **Bobasu E.**, Roman M., “Parameter Estimation of Bioprocesses via Parallel Particle Swarm Optimization”, *Proceedings of 2016 20TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC)*, WOS:000391609900058, ISBN: 978-1-5090-2720-0, Pages: 336-341, 2016.
12. Rasvan VI., **Bobasu E.**, Danciu D., Popescu D., “Control and stabilization of a linearized system of conservation laws”, *Proceedings of 17th IEEE International Carpathian Control Conference (ICCC)*, Location: Tatranska Lomnica, SLOVAKIA, MAY 29-JUN 01, 2016 WOS:000389829000115, ISBN:978-1-4673-8606-7, Pages: 618-623, 2016.
13. Ivanov S., Ivanov V., Rasvan VI., **Bobasu E.**, Popescu D., “Direct Torque Versus Predictive Control of the Induction Motor”, *Proceedings of International Conference on Applied and Theoretical Electricity (ICATE)*, WOS:000390767500049, ISBN:978-1-4673-8562-6, Craiova, ROMANIA, OCT 06-08, 2016
14. Ivanov S., Ivanov V., Rasvan VI., **Bobasu E.**, Popescu D., “Continuous Direct Torque versus Predictive Control of the Induction Motor”, *Proceedings of 9th International Conference and Exposition on Electrical and Power Engineering (EPE)*, WOS:000390706300133, ISBN:978-1-5090-6128-0, Pages: 669-674 Location: Iasi, ROMANIA, Date: OCT 20-22, 2016.
15. Popa B., Popescu I.M., Popescu D., **Bobasu E.**, “Real-time Monitoring System of a Closed Oven”, *Proceedings of 19th International Carpathian Control Conference (ICCC)*, WOS:000439260500010, ISBN:978-1-5386-4762-2, Pages: 27-32, Szilvasvarad, HUNGARY, MAY 28-31, 2018.
16. Sendrescu D., Petre E., **Bobasu E.**, “Optimal PID Controller Design based on Particle Swarm Optimization for Bacterial Growth Bioprocess”, *Proceedings of 19th International Conference on System Theory, Control and Computing (ICSTCC)*, WOS:000382384100040, ISBN:978-1-4799-8481-7, ROMANIA, OCT 14-16, 2015.
17. Stoian V., **Bobasu E.**, “Control Algorithm for a Cooperative Robotic System in Fault Conditions”, *Proceedings of 12th International Conference on Informatics in Control Automation and Robotics (ICINCO)*, WOS:000380619000039, ISBN:978-9-8975-8149-6, Alsace, FRANCE, JUL 21-23, 2015.

18. **Bobasu E.**, Danciu D., Popescu D., Rasvan VI., “On the dynamics of oilwell drillstrings with asynchronous motor drive”, *Proceedings of 16th International Carpathian Control Conference (ICCC)*, Miskolc, HUNGARY, MAY 27-30, Pages: 41-45, WOS:000380488000008, ISBN:978-1-4799-7370-5, 2015.
19. **Bobășu. E.**, Ivanov S., Popescu D., Rasvan V., „Dynamics Properties and Control for Oilwell Drillstrings”, in *Proc. of 18th International Conference on System Theory, Control and Computing*, October 17 - 19, 2014, Sinaia, Romania.
20. Roman M., Selișteanu D., **Bobășu. E.**, Sendrescu D. „Modeling of culture cells for pharmaceutical industry applications”, in *Proc. of 17th International Conference on System Theory, Control and Computing*, October 11 - 13, 2013, Sinaia, Romania.
21. **Bobășu E.**, Danciu D., Popescu D., Rasvan VI., „On dynamics and control for a system of conservation laws- the case of an overhead crane”, in *Proc. 13th International Carpathian Control Conf. ICC2012*, ISBN: 978-1-4577-1866-3, pp. 52-57, 28 – 31 May 2012, Podbanske, Slovakia.
22. Roman M., **Bobășu E.**, Selișteanu D., „Modelling of biomass combustion process”, *Energy procedia* (Impact of Integrated Clean Energy on the Future of the Mediterranean Environment, 14-16 April 2011, Beirut, Lebanon), Vol. 6, 2011, pp. 432-440, ISSN: 1876-6102, doi:10.1016/j.egypro.2011.05.050, Accession Number: WOS:000298294900050.
23. Roman M., Șendrescu D., **Bobășu E.**, Petre E., Popescu D., „Teaching System for Modelling and Simulation of Bioprocesses via Bond Graphs”, *22nd Annual Conference on Innovation in Education for Electrical and Information Engineering EAEEIE 2011*, ISBN 978-961-248-281-7, pp. 192-199, Maribor, Slovenia, 13 - 15 June 2011.
24. Roman M., Selișteanu D., Șendrescu D., **Bobășu E.**, “Modeling and simulation of a biological wastewater treatment process inside interconnected tanks,” in *Proc. of Third Pacific-Asia Conf. on Circuits, Communications and System PACCS 2011 - China (and ICOICC 2011 - Thailand)*, IEEE Catalog Number: CFP1153G-ART, ISBN: 978-1-4577-0856-5, vol. 1, 4p., May 27-28, 2011, Bangkok, Thailand.
25. Selișteanu D., Petre E., Roman M., Popescu D., **Bobășu E.**, „On-Line Estimation of Unknown Kinetics for the Enzymatic Synthesis of Ampicillin”, *Proceedings of the 2011 12th International Carpathian Control Conference (ICCC)*, IEEE Catalog Number: CFP1142L-CDR, ISBN: 978-1-61284-359-9, pp. 335-340, 25 – 28 May 2011, Velké Karlovice, Czech Republic.
26. Șendrescu D., Popescu D., Petre E., **Bobășu E.**, Selișteanu D., Nonlinear Model Predictive Control of a Lipase Production Bioprocess, *Proc. of 2011 12th International Carpathian Control Conference (ICCC)*, IEEE Catalog Number: CFP1142L-CDR, ISBN 978-1-61284-359-9, pp. 341-345, May 25-28, 2011, Velké Karlovice, Czech Republic.
27. Roman M., D. Selișteanu, **Bobășu E.**, D. Șendrescu, “Bond Graph Modeling of a Baker’s Yeast Bioprocess”, *Proc. of IEEE International Conference on Modelling, Identification and Control ICMIC 2010*, IEEE Catalog No.: CFP1090K-CDR, ISBN 978-0-9555293-3-7, pp. 82-87, July 17-19, 2010, Okayama, Japan.
28. Selișteanu, D., E. Petre, Roman M., **Bobășu E.**, “Structural Properties and Reduced Order Modeling of a Class of Bioprocesses”, *Proc. of IEEE International Conference on Modelling, Identification and Control ICMIC 2010*, IEEE Catalog No.: CFP1090K-CDR, ISBN 978-0-9555293-3-7, pp. 88-93, July 17-19, 2010, Okayama, Japan.
29. Șendrescu, D., Roman M., C. Marin, **Bobășu E.**, D. Selișteanu, „Off-line Identification of Yield Coefficients in a Baker’s Yeast Bioprocess”, *Proc. of 29th Chinese Control Conference*, IEEE catalog No. CFP1040A-CDR, ISBN 978-7-89463-104-6, pp. 1254-1260, July 29-31, 2010, Beijing, China.

30. Roman, M., D. Selișteanu, **Bobașu E.**, E. Petre, „Application of Bond Graph Modeling on a Fed-Batch Alcoholic Fermentation Bioprocess”, *Proc. of the 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2010), THETA 17th edition*, IEEE Catalog No.: CFP10AQT-CDR, ISBN 978-1-4244-6722-8, Tome I, pp. 202-207, May 28-30, 2010, Cluj-Napoca, Romania.
31. Roman M., **Bobașu E.**, D. Selișteanu, D. Șendrescu, „Modelling of Combustion Processes using Bond Graphs”, *Proc. of International Conference on Environmental Science and Technology ICEST 2010*, ISBN 978-981-08-5716-5, pp. 65-69, April 23-25, 2010, Bangkok, Thailand, doi: 10.3850/978-981-08-5716-5_T035.

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

E. Brevete obținute în întreaga activitate

Data: 30.09.2020

Semnătura:

