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 Departamentul: **Automatică și Electronică**

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Aplicații ale reglării robuste în conducerea sistemelor dinamice, Universitatea din Craiova, domeniul Automatică, conducător științific: prof.univ.dr.ing. Vladimir Răsvan, susținere publică în 21.02.1997, Diplomă de doctor: Seria P, Nr. 0002337/37/5.07.1997, Ordinul M.I. nr. 391/02.06.1997.

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

1. Răsvan Vl., Danciu D., **Popescu D.**, 2019, *On Some Neutral Functional Differential Equations Occurring in Synchronization* (cap. 2), în *Delays and Interconnections: Methodology, Algorithms and Applications*, Editura Springer, pp. 19-32, ISBN 978-3-030-11554-8.
2. Marin C., **Popescu D.**, Stîngă F., *Teoria sistemelor și reglaj automat*, Editura Universitaria, Craiova, 142 pag., ISBN 978-606-14-1161-0, 2017.

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

1. M. Marian, A. Cusman, F. Stîngă, D. Ionică and **D. Popescu**, "Experimenting With Digital Signatures Over a DNP3 Protocol in a Multitenant Cloud-Based SCADA Architecture," in *IEEE Access*, vol. 8, pp. 156484-156503, 2020, ISSN: 2169-3536, **WOS:000566129700001; Q1.**
2. Danciu D., **Popescu D.**, Răsvan V., Control of a Time Delay System Arising From Linearized Conservation Laws, *IEEE Access*, vol. 7, no. 1, pp. 48524-48542, 2019, ISSN: 2169-3536, **WOS:000466706400001; Q1 in JCR 2018**
3. Marin C., **Popescu D.**, Petre E., Selișteanu D., Modeling and Control of the Orthogonalization Plants in Textile Industry, *IEEE Transactions on Industry Applications*, vol: 55, no. 4, pp: 4247-4257, 2019, ISSN: 0093-9994, **WOS:000474562900089; Q1 in JCR 2018.**
4. Danciu Daniela, **Popescu D.**, Bobașu E. (2018). Neural Networks-Based Computational Modeling of Bilinear Control Systems for Conservation Laws: Application to the Control of Cogeneration, *IEEE Transactions on Industry Applications*, vol. 54, no. 6, pp. 6498-6507, 2018, ISSN: 0093-9994, **WOS:000447827700089; Q1 in JCR 2017.**
5. I. M. Popescu, **D. Popescu**, I. Voinea, B. Popa and R. Prejbeanu, "A DFT Computation Method for the Real-Time Processing of Vibration Signals at FPGA Circuit Level," *2020 21th International Carpathian Control Conference (ICCC)*, High Tatras, Slovakia, 2020, pp. 1-6, doi: 10.1109/ICCC49264.2020.9257281 [**IEEE Xplore**].

6. D. Danciu, **D. Popescu** and V. Răsvan, "Stability and Control Problems in Hydropower Plants," *2020 21th International Carpathian Control Conference (ICCC)*, High Tatras, Slovakia, 2020, pp. 1-5, doi: 10.1109/ICCC49264.2020.9257294 [[IEEE Xplore](#)].
7. M. Marian, **D. Popescu**, F. Stîngă, A. Cusman and D. Ionică, "Experimental SCADA Platform Using Digital Signatures," *2020 21th International Carpathian Control Conference (ICCC)*, High Tatras, Slovakia, 2020, pp. 1-6, doi: 10.1109/ICCC49264.2020.9257213 [[IEEE Xplore](#)].
8. D. Danciu, **D. Popescu** and V. Răsvan, "Stability conditions in a water hammer model involving two delays," *2019 23rd International Conference on System Theory, Control and Computing (ICSTCC)*, Sinaia, Romania, 2019, pp. 31-36. doi: 10.1109/ICSTCC.2019.8886018 [[IEEE Xplore](#)].
9. Dan Selisteanu; Monica Roman; Emil Petre; **Dan Popescu**, Software sensors in bioindustry: Asymptotic and interval observers for state estimation, *2nd IEEE International Conference on Knowledge Innovation and Invention 2019*, July 3-16, Seoul, South Korea [[IEEE Xplore](#)].
10. C. Marin, **D. Popescu**, E. Petre and D. Selişteanu, "Distortions Correction Plants in Textile Industry. Nonlinear Modelling and Control," *2019 20th International Carpathian Control Conference (ICCC)*, Krakow-Wieliczka, Poland, 2019, pp. 535-540. [WOS:000490570500105](#).
11. D. Sendrescu, **D. Popescu**, E. Petre, D. Selişteanu and D. Chintescu, "Iterative Learning Control for Active Suspension System of a Railway Vehicle," *2019 20th International Carpathian Control Conference (ICCC)*, Krakow-Wieliczka, Poland, 2019, pp. 126-130. [WOS:000490570500029](#).
12. B. Popa, **D. Popescu**, M. Roman and R. L. Constantinescu, "Optimizing Algorithms for low CPU Usage in Different Scenarios," *2019 20th International Carpathian Control Conference (ICCC)*, Krakow-Wieliczka, Poland, 2019, pp. 578-583. [WOS:000490570500113](#).
13. M. Marian, A. Cusman, **D. Popescu** and D. Ionică, "A DNP3-based SCADA Architecture Supporting Electronic Signatures," *2019 20th International Carpathian Control Conference (ICCC)*, Krakow-Wieliczka, Poland, 2019, pp. 497-502. [WOS:000490570500001](#).
14. Daniela Danciu, **Dan Popescu**, Vladimir Răsvan, Water Hammer Stability in a Hydroelectric Plant with Surge Tank and Throttling, *15th IFAC Workshop on Time Delay Systems*, 9-11 September 2019, Sinaia, Romania, IFAC Papers OnLine, vol. 52, issue 18, pp. 144-149. [WOS:000504412200026](#).
15. Răsvan, V., Danciu, D., **Popescu, D.**, Qualitative properties of a model of coupled drilling oscillations, *22nd International Conference on System Theory, Control and Computing*, pp. 99-104, October 10-12, 2018, Sinaia, Romania, ISBN: 978-1-5386-4444-7. [WOS:000465109800016](#).
16. Petre, E., Selisteanu, D., **Popescu, D.**, Sendrescu, D., Roman, M., An Adaptive Control Scheme for a Lactic Acid Production Process with Unknown Inputs, *22nd International Conference on System Theory, Control and Computing*, pp. 99-104, October 10-12, 2018, Sinaia, Romania, ISBN: 978-1-5386-4444-7. [WOS:000465109800062](#).
17. Răsvan V., Danciu D., **Popescu D.**, On the stabilization of a system of neutral type occurring in co-generation, *14th IFAC Workshop on Time Delay Systems TDS 2018*, Budapest, Hungary, 28–30 June 2018, IFAC-PapersOnLine, Volume 51, Issue 14 2018, Pages 106-111. [WOS:000443033900020](#).
18. Marin C., **Popescu D.**, Petre E., Selişteanu D., Computer control of the orthogonalization plants in textile industry, *2018 19th International Carpathian Control Conference (ICCC)*, pp. 138 – 143, May 28-31, 2018, Szilvasvarad, Ungaria. [WOS:000439260500030](#).
19. Popa B., Popescu I.M., **Popescu D.**, Bobașu E., Real-time monitoring system of a closed oven, 2018 19th International Carpathian Control Conference (ICCC), pp. 27 – 32, May 28-31, 2018, Szilvasvarad, Ungaria. [WOS:000439260500010](#).

20. Răsvan V., Danciu D., **Popescu D.**, Time delay and wave propagation in controlling systems of conservation laws, *2017 21st International Conference on System Theory, Control and Computing (ICSTCC)*, pp. 419 – 423, October 19-21, 2017, Sinaia, Romania. [WOS:000427419900068](#).
21. Răsvan V., Danciu D., **Popescu D.**, On Huygens synchronization. Application to Van der Pol oscillators with distributed couplings, *2017 18th International Carpathian Control Conference (ICCC)*, pp. 521 – 526, May 28-31, 2017, Sinaia, Romania. [WOS:000426954400097](#).
22. Marin C., **Popescu D.**, Petre E., Roman M., Mathematical modelling of belt drying plants with several temperature zones, *2017 18th International Carpathian Control Conference (ICCC)*, pp. 64 – 69, May 28-31, 2017, Sinaia, Romania. [WOS:000426954400013](#).
23. Popa B., **Popescu D.**, Analysis of Algorithms for Shortest Path Problem in Parallel, *17th International Carpathian Control Conference (ICCC)*, pp. 613-617, May 29-June 01, 2016, High Tatras, Slovak Republic. [WOS:000389829000114](#).
24. Marin C., **Popescu D.**, Petre E., Selisteanu D., Mathematical Modelling of Systems with State Dependent Delays. Applications for Conveyer Belt Plants, *17th International Carpathian Control Conference (ICCC)*, pp. 479-484, May 29-June 01, 2016, High Tatras, Slovak Republic. [WOS:000389829000090](#).
25. Răsvan V., Bobașu E., Danciu D., **Popescu D.**, Control and Stabilization of a Linearized System of Conservation Laws, *17th International Carpathian Control Conference (ICCC)*, pp. 618-623, May 29-June 01, 2016, High Tatras, Slovak Republic. [WOS:000389829000115](#).
26. Ivanov, S., Ivanov, V., Răsvan, V., Bobașu E., **Popescu, D.**, Direct torque versus predictive control of the induction motor, *2016 International Conference on Applied and Theoretical Electricity (ICATE)*, pp. 1-6, October 6-8, Craiova, Romania. [WOS:000390767500049](#).
27. Ivanov, S., Ivanov, V., Răsvan, V., Bobașu E., **Popescu, D.**, Continuous direct torque versus predictive control of the induction motor, *2016 International Conference and Exposition on Electrical and Power Engineering (EPE)*, pp. 669 - 674, October 20-22, Iași, Romania. [WOS:000390706300133](#).
28. Răsvan V., **Popescu D.**, Danciu D., Controller synthesis for a system of conservation laws, *2016 20th International Conference on System Theory, Control and Computing (ICSTCC)*, pp. 744 – 748, October 13-15, 2016, Sinaia, Romania. [WOS:000391609900126](#).
29. Purcaru, D.M., Purcaru I., **Popescu, D.**, Results Obtained in Monitoring Transient Electrical Events from Hydropower Plants, *16th International Carpathian Control Conference (ICCC)*, pp. 414-419, May 27-30, 2015, Szilvasvarad, Hungary. [WOS:000380488000078](#).
30. Danciu, D., **Popescu, D.**, Bobașu, E., Computational issues based on neural networks for a class of systems of conservation laws, *16th International Carpathian Control Conference (ICCC)*, pp. 100-105, May 27-30, 2015, Szilvasvarad, Hungary. [WOS:000380488000020](#).
31. Bobașu, E., Danciu, D., **Popescu, D.**, Răsvan, V., On the dynamics of oilwell drillstrings with asynchronous motor drive, *16th International Carpathian Control Conference (ICCC)*, pp. 41-45, May 27-30, 2015, Szilvasvarad, Hungary. [WOS:000380488000008](#).
32. Marin, C., Selișteanu, D., **Popescu, D.**, Roman M., Adaptive Optimal Control of a Continuous Stirred Tank Bioreactor, *19th International Conference on System Theory, Control and Computing (ICSTCC)*, pp. 49-54, October 14-16, 2015, Cheile Grădiștei, Romania. [WOS:000382384100009](#).
33. Stîngă, F., **Popescu D.**, Robust Model Predictive Control of an Induction Motor, *18th International Conference on System Theory, Control and Computing*, pp. 381-386, October 17-19, 2014, Sinaia, Romania, ISBN: 978-1-4799-4601-3 [[Scopus](#), [IEEE Xplore](#)].

34. Bobașu, E., Ivanov, S., **Popescu, D.**, Răsvan V., Dynamics Properties and Control for Oilwell Drillstrings, *18th International Conference on System Theory, Control and Computing*, pp. 249-255, October 17-19, 2014, Sinaia, Romania, ISBN: 978-1-4799-4602-0 [[Scopus](#), [IEEE Xplore](#)].
35. Danciu, D., **Popescu, D.**, Răsvan, V., Stabilization of the Flexible Manipulator. Liapunov based Design. Robustness, *11th International Conference on Informatics in Control, Automation and Robotics (ICINCO)*, pp. 508-518, September, 1-3, 2014, Viena, Austria, ISBN: 978-989-758-039-0 [[Scopus](#)].
36. Ivanov, S., Răsvan, V., Bobașu, E., **Popescu, D.**, Stîngă, F., Current control of a vsi-fed induction machine by predictive technique, *28th European Conference on Modelling and Simulation*, pp. 159-165, May 27-30, 2014, Brescia, Italy, ISBN: 978-0-9564944-8-1 [[Scopus](#)].
37. Răsvan V., Danciu D., **Popescu D.**, 2013, On absolute (robust) stability: slope restrictions and stability multipliers, *International Journal of Robust and Nonlinear Control*, vol. 23, pp. 77-103. ISSN: 1049-8923 (First published online 24.10.2011, doi: 10.1002/rnc.1821). [WOS: 000343950800004](#); **Q1 - JCR 2017**.
38. Petre, E., Selișteanu, D., **Popescu, D.**, Adaptive Control Technique for a Propagation Bioprocess Carried Out Inside a Fixed Bed Reactor, *2nd International Conference on Systems and Computer Science (ICSCS)*, pp. 189-194, August 26-27, 2013, Villeneuve d'Ascq, France [[Scopus](#)].
39. Șendrescu, D., Bobașu, E., **Popescu, D.**, Identification Techniques Based on Heuristic Optimization for Propagation Processes, *2nd International Conference on Systems and Computer Science (ICSCS)*, pp. 195-200, August 26-27, 2013, Villeneuve d'Ascq, France [[Scopus](#)].
40. Ivanov, S., Răsvan, V., Bobașu, E., **Popescu, D.**, Stîngă, F., Ivanov, V., Predictive versus vector control of the induction motor, *27th European Conference on Modelling and Simulation*, pp. 434-440, May 27-31, 2013, Ålesund, Norway, ISBN: 978-0-9564944-6-7 / ISBN: 978-0-9564944-7-4 (CD) [WOS: 000337114500066](#).
41. Răsvan, V., **D. Popescu**, On the Problem of Aizerman, *16th International Conference on System Theory, Control and Computing (ICSTCC'2012)*, ISBN 978-1-4673-4534-7, pp. 1-6, October 12-14, 2012, Sinaia, Romania. [[Scopus](#)].
42. Stîngă, F., **Popescu D.**, Real time predictive control for hybrid plant, *13th International Carpathian Control Conference (ICCC'2012)*, pp. 684-689, May 28-31, 2012, Podbanské, Slovak Republic [[Scopus](#)].
43. Bobașu, E., Danciu, D., **Popescu, D.**, Răsvan, V., On dynamics and control for a system of conservation laws - the case of the overhead crane, *13th International Carpathian Control Conference (ICCC'2012)*, pp. 52-57, May 28-31, 2012, Podbanské, Slovak Republic [[Scopus](#)].
44. Danciu, D. Răsvan, V. **Popescu, D.**, On the absolute stability for recurrent neural networks with time delays, *13th International Carpathian Control Conference (ICCC'2012)*, pp. 97-102, May 28-31, 2012, Podbanské, Slovak Republic [[Scopus](#)].
45. Stîngă, F., **D. Popescu**, Predictive control of a bioprocess – a hybrid approach, *15th International Conference on System Theory, Control and Computing*, IEEE Catalog Number: CFP1136P-CDR, ISBN 978-973-621-323-6, pp. 592-597, October 14-16, 2011, Sinaia, Romania. [[Conf. IEEE](#), [Scopus](#)].
46. Șendrescu, D., E. Petre, **D. Popescu**, M. Roman, “Neural Network Model Predictive Control of a Wastewater Treatment Bioprocess”, (invited paper), *Proc. of 3rd International Conference on Intelligent Decision Technologies (IDT 2011)*, July 20-22, 2011, Piraeus, Greece, (Eds. J. Watada, G. Phillips-Wren, L.C. Jain, R.J. Howlett), *Series: Smart Innovation, Systems and Technologies*, Vol. 10, pp. 191-200, 2011, Springer-Verlag Berlin Heidelberg 2011. [[Scopus](#)].
47. Șendrescu, D., **D. Popescu**, E. Petre, E. Bobasu, D. Selisteanu, 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. [Conf. IEEE, Scopus].

48. Selișteanu D., E. Petre, M. Roman, **D. Popescu**, E. Bobașu, „On-Line Estimation of Unknown Kinetics for the Enzymatic Synthesis of Ampicillin”, *Proc. of 2011 12th International Carpathian Control Conference (ICCC)*, IEEE Catalog Number: CFP1142L-CDR, ISBN 978-1-61284-359-9 pp. 335-340, May 25-28, 2011, Velké Karlovice, Czech Republic. [Conf. IEEE, Scopus].
49. Șoimu A., Stîngă F., **Popescu D.**, 2010, A Comparative Study Between MP and DLQ Control Strategies for a Flexible Link, *Acta Montanistica Slovaca*, vol. 15, no. 1, pp. 38 – 43, ISSN 1335-1788. WOS: 000279345600009.
50. Răsvan, Vl., Danciu, D., **Popescu, D.**, 2010, Some Results on Stability of Systems Containing Bounded Nonlinearities – a Survey, *8th IFAC Symposium on Nonlinear Control Systems – NOLCOS 2010*, 1 – 3 sept., Bologna, Italia. [IFAC papers online, Scopus].
51. Răsvan V., **Popescu D.**, Danciu D., 2010, Global asymptotic stability for a class of nonlinear systems which are equivalent to neutral higher order Functional Differential Equations, *9th IFAC Workshop on Time Delay Systems TDS 2010*, 7-9 Iunie, Praga, Cehia. [IFAC papers online. Scopus].
52. Sendrescu, D., Marin, C., Petre, E., **Popescu, D.**, Roman, M., 2010, Nonlinear Identification of a Rotating Flexible Beam, *IEEE International Conference on Automation, Quality and Testing, Robotics - AQTR 2010*, May 28-30, Cluj-Napoca, Romania, WOS:000419281500031.
53. Răsvan, Vl., Danciu, D., **Popescu, D.**, 2010, Frequency domain stability inequalities for nonlinear time delay systems, *The 15th IEEE Mediterranean Electromechanical Conference MELECON2010*, Valletta, Malta, aprilie 2010. WOS: 000286988200255.
54. Stîngă, F., Șoimu, A., **Popescu, D.**, Hybrid Control System for a Two-Tank Plant, *Proc. of 11th International Carpathian Control Conference (ICCC'2010)*, pp. 451-454, May 26-28, 2010, Miskolc, Hungary, ISBN: 978-963-06-9289-2. WOS:000396785800103.
55. Petre, E., Selisteanu, D., **Popescu, D.**, Estimation and Adaptive Control of an Anaerobic Wastewater Treatment Bioprocess, *Proc. of 11th International Carpathian Control Conference (ICCC'2010)*, pp. 505-508, May 26-28, 2010, Miskolc, Hungary, ISBN: 978-963-06-9289-2. WOS:000396785800116.

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

- Reviste

1. Popa B., **Popescu D.**, 2015, “Improving of the Backtracking Algorithm using different strategy for solving the 2-d problems”, *Annals of the University of Craiova, Automation, Computers, Electronics and Mechatronics Series*, 2015, vol. 12(39), no. 1, pp. 29-33.
2. Popa, B., **Popescu D.**, 2014, Lossless Compression in Image Processing Technologies and Applications, *Annals of the University of Craiova, Automation, Computers, Electronics and Mechatronics Series*, vol. 11(38), no.2, pp. 13-18.
3. Răsvan V., **Popescu D.**, Danciu D., 2010, Monotone and slope restricted nonlinearities – a PIO II case study, *Annals of the University of Craiova, Automation, Computers, Electronics and Mechatronics Series*, vol. 7(34), no.2, pp. 39-44, ISSN: 1841-0626. [CNCSIS tip B].
4. Răsvan V., **Popescu D.**, Danciu D., 2010, Slope Restrictions. Multipliers. Stability Inequalities, *Annals of the University of Craiova, Automation, Computers, Electronics and Mechatronics Series*, vol. 7(34), no.1, pp. 61-65, ISSN: 1841-0626. [CNCSIS tip B+].

5. Bobasu, E., **Popescu, D.**, Ivanov, S., 2010, Robust Control Law Design for a Synchronous Motor using Feedback Linearization Method, *Annals of the University of Craiova, Automation, Computers, Electronics and Mechatronics Series*, vol. 7(34), no.1, pp. 15-20, ISSN: 1841-0626. [CNCSIS tip B+].

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Semnătura: