

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Strategii de conducere pentru sistemele hibride. Aplicații

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

1. Marin C., Popescu D., **Stîngă F.**, *Teoria sistemelor și reglaj automat – Manual universitar pentru învățământ cu frecvență redusă*, Editura Universitaria, 2017.
2. **Stîngă F.**, Marian M., *Programarea microcontrolerelor PIC18F – de la Proteus la sistemul PICDEM*, Editura Matrixrom, București, 2021.
3. **Stîngă F.**, Popescu D., *Teoria sistemelor și reglaj automat – Teorie și aplicații*, Editura Universitaria, 2022.

C. Lucrări indexate ISI/BDI

1. **Stîngă F.**, Roman M., Soimu A., Bobasu E., Optimal and MPC control of the Quanser Flexible Link Experiment, *The 7th International Conference on non-linear analysis, non-linear systems and chaos 2008*, pp. 175-180, ISBN 978-960-474-014-7, Greece, **WOS:000262930900030**.
2. Popescu D., Iacob A., **Stîngă F.**, Soimu A., State Feedback Control with Integral Action for an Active Power, *The 6th WSEAS International Conference on applied electromagnetics, wireless and optical communications 2008*, pp. 150-154, ISBN: 978-960-6766-79-4, Norway, **WOS:000258399200028**.
3. Soimu A., **Stîngă F.**, Popescu D., Controller design for Ball and Beam Quanser Real-Time Experiment. *Proceedings of the 9th International Carpathian Control Conference 2008*, pp. 639-643, ISBN: 978-973-746-897-0, 2008, Sinaia, Romania.
4. Soimu A., **Stîngă F.**, Popescu D., MP and LQ control with compensation of dead zone for a real time experiment, *Buletinul Universității Petrol-Gaze din Ploiești*, pp. 167-173, vol LXI, No. 3/2009.
5. Soimu A., **Stîngă F.**, Popescu D., A comparative study between MP and DLQ control strategies for a flexible link, *Acta Montanistica Slovaca*, vol. 15, pp. 38-42, 2010, ISSN 1335-1788. **WOS: 00279345600009**.
6. **Stîngă F.**, Mitoiu D., Nisipeanu I., Soimu A., Hybrid control scheme implemented on a programmable logical controller, *Proceedings of the 14th International Conference on System Theory and Control*, pp. 541-546, 2010, ISSN 2068-0465.
7. **Stîngă F.**, Soimu A., Hybrid modelling and control for a two-tank system, *Buletinul Institutului Politehnic din Iași*, Tomul LVI(LX), Fasc.4, pp. 73-90, 2010.
8. **Stîngă F.**, Soimu A., Popescu D., Hybrid Control System for a Two-Tank Plant, *Proceedings of the 11th International Carpathian Control Conference*, pp. 451-454, 2010, ISBN 978-963-06-9289-2, **WOS:000396785800103**.
9. **Stîngă F.**, Popescu D., Predictive control of a bioprocess – a hybrid approach, *Proceedings of 15th International Conference on System Theory and Control*, pp. 551-556, 2011, ISBN 978-1-4577-1173-2.

10. **Stîngă F.**, Stabilization of discrete-time hybrid systems with time-delays, *Annals of the University of Craiova, Series: AUTOMATION, COMPUTERS, ELECTRONICS and MECHATRONICS*, vol 8(36), no.2, pp. 72 – 76, 2011.
11. **Stîngă F.**, Popescu D., Real Time Predictive Control for a hybrid plant, *Proceedings of 13th International Carpathian Control Conference*, pp. 684-689, 2012, ISBN 978-1-4577-1867-0.
12. **Stîngă F.**, Bunciu E., Robust interval observer and nonlinear predictive control of an active sludge process, *Proceedings of 16th International Conference on System Theory and Control*, 2012, ISBN 978-1-4673-4534-7.
13. Ivanov S., Răsvan V., Bobașu E., Popescu D., **Stîngă F.**, Ivanov. V., Predictive versus vector control of induction motor, *Proceedings of the 27th European Conference on Modelling and Simulation*, pp. 434-440, 2013, ISBN: 978-0-9564944-6-7. **WOS:000337114500066.**
14. **Stîngă F.**, Popescu D., Robust predictive control of an induction motor, *Proceedings of the 18th International Conference on System Theory, Control and Computing*, Sinaia, Romania, 2014.
15. Ivanov S., Răsvan V., Bobașu E., Popescu D., **Stîngă F.**, Current control of a vsi-fed induction machine by predictive technique, *Proceedings of the 28th European Conference on Modelling and Simulation*, 2014.
16. **Stîngă F.**, Petre E., Predictive control of an anaerobic digestion process, *Buletinul Institutului Politehnic din Iași*, Tomul LXI(LXV), Fasc.2, pp. 57-70, 2015.
17. **Stîngă F.**, Marian M., Șoimu A., Online estimation and control of an induction motor, *Proceedings of the 19th International Conference on System Theory, Control and Computing*, pp. 742-746, Cheile Gradistei, Romania, 2015, **WOS:000382384100123.**
18. Șoimu A., **Stîngă F.**, Predictive control of torsional drillstring vibrations, *Proceedings of the 20th International Conference on System Theory, Control and Computing*, Sinaia, Romania, 2016, **WOS:000391609900135.**
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24. **Stîngă F.**, E. Petre, Estimation based control strategies for an aerobic bioprocess, *Proceedings of the 22nd International Conference on System Theory, Control and Computing*, Sinaia, Romania, 2018, **WOS:000465109800036.**

25. Dragomirescu A., **Stîngă F.**, Design of Three-Dimensional Museum-Like Environment by using Virtual Reality, *ANNALS OF THE UNIVERSITY OF CRAIOVA, Series: Automation, Computers, Electronics and Mechatronics*, Vol. 15 (42), No. 1, 2018.
26. Danciu D., Boussaada Islam, **Stîngă F.**, Computational modeling and oscillations damping of axial vibrations in a drilling system, *Proceedings of the 22nd International Conference on System Theory, Control and Computing*, Sinaia, Romania, 2018, **WOS:000465109800017**.
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30. **F. Stîngă**, M. Marian, D. Selișteanu, Robust Estimation-Based Control Strategies for Induction Motors, *Complexity*, 2020. **WOS:000561307600003, ISI Q2**.
31. M. Marian, A. Cusman, **F. Stîngă**, D. Ionică, D. Popescu, Experimenting With Digital Signatures Over a DNP3 Protocol in a Multitenant Cloud-Based, *IEEE Acces* 8, 2020. **WOS:000566129700001, ISI Q1**.
32. M. Marian, **F. Stîngă**, M.T. Georgescu, H. Roibu, D. Popescu, F. Manta, A ROS-based Control Application for a Robotic Platform Using the Gazebo 3D Simulator, *21th International Carpathian Control Conference*, 2020.
33. M. Marian, D. Popescu, **F. Stîngă**, A. Cusman, , D. Ionică, Experimenting SCADA Platform Using Digital Signatures, *21th International Carpathian Control Conference*, 2020.
34. M. Marian, E. Ganea, D. Popescu, **F. Stîngă**, A. Cusman, D. Ionică, Analysis of Different SaaS Architectures from a Trust Service Provider Perspective, *23rd International Carpathian Control Conference (ICCC)*, pp. 360 – 365, 2022.
35. A.F. Croitoru, **F. Stîngă**, M. Marian, A Case Study for Designing a Secure Communication Protocol over a Controller Area Network, *26th International Conference on System Theory, Control and Computing (ICSTCC)*, pp. 47 – 51, 2022.
36. M. Marian, **F. Stîngă**, A. Cusman, E. Ganea, D. Popescu, D. Ionică, Requirements Analysis for a System for Certifying Online Content, *2023 24th International Carpathian Control Conference*, pp. 259 – 264, Hungary, 2023.
37. M. Marian, **F. Stîngă**, A. Cusman, C. Cerbulescu, D. Popescu, D. Ionică, A Technical Investigation towards a Cloud-Based Signature Solution, *2023 24th International Carpathian Control Conference*, pp. 254 – 258, Hungary, 2023.
38. M. Marian, A. Cusman, I. Borcoși, **F. Stîngă**, C.-A. Borcoși, A. Toma, A Conceptual Model for a Cloud-Based Digital Signing Service, *2023 22nd RoEduNet Conference: Networking in Education and Research (RoEduNet)*, pp. 1 – 5, Romania, 2023.

Semnătura:

