

LISTA DE LUCRĂRI ȘI PROIECTE

Prof. dr. ing. Dan SELIȘTEANU

I. Lucrări relevante

1. Căpriță, H.V., **D. Selișteanu**. A novel configurable End-to-End communication protection hardware module for automotive sensors. *IEEE Sensors Journal*, 24(6):8949–8961, doi: 10.1109/JSEN.2024.3360624, 2024. [ISI WoS, Q1, Impact factor IF 4.3]
<https://ieeexplore.ieee.org/document/10423596>
2. **Selișteanu, D.**, I.M. Popescu, M. Roman, C. Șulea-Iorgulescu, S. Mehedințeanu. A software emulator for the modelling and control of an activated sludge process in a Wastewater Treatment Plant. *Processes*, 9(11):2054, doi: 10.3390/pr9112054, 2021. [ISI, Q2, IF 3.5]
<https://www.mdpi.com/2227-9717/9/11/2054>
3. Petre, E., **D. Selișteanu**, M. Roman. Advanced nonlinear control strategies for a fermentation bioreactor used for ethanol production. *Bioresource Technology*, Elsevier, 328:124836, doi: 10.1016/j.biortech.2021.124836, 2021. [ISI, Q1, IF 11.4]
<https://www.sciencedirect.com/science/article/abs/pii/S0960852421001759>
4. Marin, C., D. Popescu, E. Petre, **D. Selișteanu**. Modeling and control of the orthogonalization plants in textile industry. *IEEE Transactions on Industry Applications*, 55(4):4247–4257, doi: 10.1109/TIA.2019.2907893, 2019. 019ISSN 0093-9994. [ISI, Q1, IF 4.4]
<https://ieeexplore.ieee.org/document/8675534>
5. **Selișteanu, D.**, D. Șendrescu, V. Georgeanu, M. Roman. Mammalian cell culture process for monoclonal antibody production: Nonlinear modelling and parameter estimation. *BioMed Research Int.*, Hindawi, ID 598721, doi: 10.1155/2015/598721, 2015. [ISI, IF 3.2]
<http://www.hindawi.com/journals/bmri/2015/598721/>
6. **Selișteanu, D.**, S. Tebbani, M. Roman, E. Petre, V. Georgeanu. Microbial production of enzymes: Nonlinear state and kinetic reaction rates estimation. *Biochemical Engineering Journal*, Elsevier, 91:23–36, doi: 10.1016/j.bej.2014.07.010, 2014. [ISI, Q2, IF 3.9]
<http://www.sciencedirect.com/science/article/pii/S1369703X14002022>
7. Petre, E., **D. Selișteanu**, D. Șendrescu. Adaptive and robust-adaptive control strategies for anaerobic wastewater treatment bioprocesses. *Chemical Engineering Journal*, Elsevier, 217:363–378, doi: 10.1016/j.cej.2012.11.129, 2013. [ISI, Q1, IF 15.1]
<https://www.sciencedirect.com/science/article/abs/pii/S1385894712016233>
8. **Selișteanu, D.**, E. Petre, M. Roman, D. Șendrescu. Estimation of kinetic rates in a baker's yeast fed-batch bioprocess by using nonlinear observers. *IET Control Theory & Applications*, 6(2):243–253, doi: 10.1049/iet-cta.2011.0067, 2012. [ISI, Q2, IF 2.6]
<http://digital-library.theiet.org/content/journals/10.1049/iet-cta.2011.0067>
9. **Selișteanu, D.**, M. Roman, D. Șendrescu. Pseudo bond graph modelling and on-line estimation of unknown kinetics for a wastewater biodegradation process. *Simulation Modelling Practice and Theory*, Elsevier, 18(9):1297–1313, doi: 10.1016/j.simpat.2010.05.004, 2010. [ISI, Q1, IF 4.2]
<http://www.sciencedirect.com/science/article/pii/S1569190X10000845>
10. **Selișteanu, D.**, E. Petre, V. Răsvan. Sliding mode and adaptive sliding-mode control of a class of nonlinear bioprocesses. *International Journal of Adaptive Control and Signal Processing*, Wiley, 21(8-9):795–822, doi: 10.1002/acs.973, 2007. [ISI, Q2, IF 3.1]
<http://onlinelibrary.wiley.com/doi/10.1002/acs.973/abstract>

II. Teza de doctorat

Conducerea Automată a Bioreactorului Enzimatic, Universitatea din Craiova, Domeniul Automatică, conducător științific: prof. dr. ing. Vladimir Răsvan, susținere publică în 18.12.1999, Diplomă: Seria A Nr. 0002398, Ordinul M.E.N. 3337/08.03.2000.

III. Cărți și capitole (selecție)

1. Nicola, M., **D. Selișteanu**, C.I. Nicola. *Sisteme complexe de control inteligent al motoarelor sincrone cu magneți permanenți și al convertoarelor electronice de putere*, Academia de Științe Tehnice din România, Seria „Studii și cercetări”, Ed. AGIR, București, 636 pagini, ISBN: 978-973-720-889-7, 2023.
2. **Selișteanu, D.** *Research and achievements in modelling and control of bioprocesses*, Editura Universitaria, Craiova, 114 pagini, ISBN: 978-606-14-1482-6, 2019.
3. **Selișteanu, D.**, C. Ionete, E. Petre. *Instrumentație virtuală. Aplicații de prelucrare numerică a semnalelor*. Editura Matrix Rom, București, 202 pagini, ISBN: 978-973-755-594-6, 2010.
4. **Selișteanu, D.**, E. Petre. *Metode de conducere a bioprocetelor de depoluare*. Editura Universitaria, Craiova, 210 pagini, ISBN: 978-973-742-543-0, 2006.
5. **Selișteanu, D.**, C. Ionete, E. Petre, D. Popescu, D. Șendrescu. *Aplicații LabVIEW pentru achiziția și generarea datelor*. Editura SITECH, Craiova, 200 pagini, ISBN: 973-657-594-2, 2004.
6. Căpriță, H.V., **D. Selișteanu**. *Safety Automotive Sensors and Actuators with End-to-End Protection (E2E) in the Context of AUTOSAR Embedded Applications*. In: Modeling, Identification, and Control for Cyber-Physical Systems Towards Industry 4.0 (P. Mercorelli, W. Zhang, H. Nemat, Y.M. Zhang Eds.), A volume in Emerging Methodologies and Applications in Modelling, 2024, Chapter 10, pp. 215-242, Elsevier, Academic Press, ISBN: 978-0-323-95207-1, 2024.
7. Petre, E., **D. Selișteanu**. *Advanced Estimation and Control Schemes for Biorefinery Plants*. In: Waste Biorefinery - Value Addition through Resource Utilization (T. Bhaskar, S. Varjani, A. Pandey, E.R. Rene Eds.), Chapter 1, pp. 1-41, Elsevier, Amsterdam, Netherlands, ISBN: 978-0-12-821879-2, 2021.
8. **Selișteanu, D.**, E. Petre, I.M. Popescu, M. Roman. *Advanced Control Algorithms and Software Solutions for Monitoring and Data Acquisition in a Wastewater Treatment Plant*. In: Advances in Environmental Research, Vol. 76 (Justin A. Daniels Ed.), Chapter 3, pp. 125-161, Nova Science Publ., Inc., Hauppauge, NY, USA, ISBN: 978-1-53618-690-1, 2020.
9. **Selișteanu, D.**, I.M. Popescu, E. Petre, M. Roman, D. Șendrescu, B. Popa. *Distributed Control Systems for a Wastewater Treatment Plant: Architectures and Advanced Control Solutions*. In: Wastewater and Water Quality (Taner Yonar Ed.), Chapter 9, pp. 153-181, IntechOpen, London, UK, ISBN 978-1-78923-620-0, 2018.
10. Șendrescu, D., S. Tebbani, **D. Selișteanu**. *Bioprocesses Parameter Estimation by Heuristic Optimization Techniques*. In: Developments in Model-Based Optimization and Control (S. Olaru, A. Grancharova, F.L. Pereira Eds.), Chapter 11, pp. 237–254, Lecture Notes in Control and Information Sciences 464, Springer, ISBN 978-3-319-26685-5, 2015.
11. Caramihai, M., S. Caraman, E. Petre, **D. Selișteanu**, M. Barbu, C. Tănase. *Modelarea și controlul proceselor biotehnologice*. În: Automatica (Ed. I. Dumitrache), Vol. 3, Cap. 34, pp. 257-384, Ed. Academiei Române, București, ISBN 978-973-27-2613-6, 2015.
12. **Selișteanu, D.**, E. Petre, D. Șendrescu, M. Roman. *High-Gain Observers for Estimation of Kinetics in Batch and Continuous Bioreactors*. In: Mathematical Chemistry (W.I. Hong Ed.), Series: Chemistry Research and Applications, Chapter 5, pp. 367–416, Nova Science Publisher's, Inc., Hauppauge, NY, USA, ISBN 978-1-60876-894-3, 2010.

IV. Brevete

1. *Adaptive System of Controlled Charging for the Intermediate Circuit of Multi-level Three-phase Inverters*, Patent Number (pending): RO135689-A0, OSIM, 26 May 2022, Inventors: R. Prejbeanu, M. Roman, L. Mandache, **D. Selișteanu**, Patent Assignee Name & Code: University of Craiova (UYCR-Non-standard), Derwent Primary Accession No. 2022-65825Q.
2. *Method for Detecting and Localizing Defects in Sensors used for Controlling Brushless DC Motors*, Patent Number (pending): RO132063-A2, OSIM, 28 July 2017, Inventors: E. Iancu, E. Bobașu, **D. Selișteanu**, D. Șendrescu, C. Antonie, Patent Assignee Name and Code: NEXTROM IND SRL, Derwent Primary Accession Number: 2017-51674H.
3. *Method for Estimating Parameters of Brushless DC Motors Consists in Estimating the Parameters as an Optimization Solved by Means of Algorithm*, Patent Number (pending): RO131666-A2, OSIM, 30 January 2017, Inventors: D. Șendrescu, I. Ivanov, **D. Selișteanu**, E. Petre, E. Bobașu, M. Meche, C. Antonie, Patent Assignee Name & Code: NEXTROM IND SRL, Derwent Primary Accession No. 2017-08360P.

V. Articole publicate în reviste indexate în ISI WoS și alte BDI (selecție)

1. Căpriță, H.V., **D. Selișteanu**. A Novel Configurable End-to-End Communication Protection Hardware Module for Automotive Sensors. *IEEE Sensors Journal*, March 2024, Vol. 24, No. 6, pp. 8949-8961, doi: 10.1109/JSEN.2024.3360624, ISSN: 1530-437X. [ISI, Q1, IF 4.3]
2. Albița, A., **D. Selișteanu**. A Compact IIoT System for Remote Monitoring and Control of a Micro Hydropower Plant. *Sensors*, 23:1784, 2023, doi:10.3390/s23041784, ISSN1424-8220. [ISI, Q2, IF 3.9]
3. Brezovan, M., R.E. Precup, **D. Selișteanu**, L. Stănescu. Colored Petri nets-based control and experimental validation on three-tank system level control. *International Journal of General Systems*, Taylor & Francis, Jan. 2023, Vol. 52, Issue 1, pp. 1-47, DOI: 10.1080/03081079.2022.2086542, ISSN: 0308-1079. [ISI, Q2, IF 2]
4. Unguritu, M.G., T.C. Nichițelea, **D. Selișteanu**. Design and Performance Assessment of Adaptive Harmonic Control for a Half-Car Active Suspension System. *Complexity*, Wiley-Hindawi, Vol. 2022, Article ID 3190520, 14 p., 2022, DOI: 10.1155/2022/3190520, ISSN 1076-2787. [ISI, Q2, IF 2.3]
5. Popa, B., **D. Selișteanu**, A.E. Lorincz. Possibilities of Use for Fractal Techniques as Parameters of Graphic Analysis. *Fractal and Fractional*, Vol. 6, No. 11, 686, 2022, DOI: 10.3390/fractalfract6110686, ISSN 2504-3110. [ISI, Q1, IF 5.4]
6. Căpriță, H.V., **D. Selișteanu**. Improvement of Automotive Sensors by Migrating AUTOSAR End-to-End Communication Protection Library into Hardware. *Elektronika Ir Elektrotehnika*, 28(5), 34-44, 2022, <https://doi.org/10.5755/j02.eie.31154>, ISSN: 1392-1215. [ISI, IF 1.3]
7. Albița, A., **D. Selișteanu**. A Configurable Monitoring, Testing, and Diagnosis System for Electric Power Plants. *Sensors*, Vol. 22, Issue 15, art. 5618, 2022, doi: 10.3390/s22155618, ISSN 1424-8220. [ISI, Q2, IF 3.9]
8. Georgeanu, V.A., M. Mămuleanu, S. Ghiea, **D. Selișteanu**. Malignant Bone Tumors Diagnosis Using Magnetic Resonance Imaging Based on Deep Learning Algorithms. *Medicina*, 58(5), 636, 16 p., 2022, DOI: 10.3390/medicina58050636, ISSN: 1010-660X, e-ISSN: 1648-9144. [ISI, IF 2.6]
9. Nicola, M., C.I. Nicola, **D. Selișteanu**. Improvement of the Control of a Grid Connected Photovoltaic System Based on Synergetic and Sliding Mode Controllers Using a Reinforcement Learning Deep Deterministic Policy Gradient Agent. *Energies*, 15(7), 2392, 32 p., 2022, DOI: 10.3390/en15072392, ISSN 1996-1073. [ISI, IF 3.2]
10. **Selișteanu, D.**, I.M. Popescu, M. Roman, C. Șulea-Iorgulescu, S. Mehedințeanu. A Software Emulator for the Modelling and Control of an Activated Sludge Process in a Wastewater Treatment Plant. *Processes*, 9(11):2054, 16 p., 2021, DOI: 10.3390/pr9112054, ISSN 2227-9717. [ISI, Q2, IF 3.5]

11. **Selișteanu, D.**, M. Roman, L. Mandache, R. Prejbeanu, S. Ivanov, A. Radu. Three-Level Inverter Control Techniques: Design, Analysis, and Comparisons. *Elektronika Ir Elektrotehnika*, Vol. 27, Issue 3, pp. 26-37, 2021, doi: 10.5755/j02.eie.29015, ISSN 1392-1215. [ISI, IF 1.3]
12. Nicola, C.I., M. Nicola, **D. Selișteanu**. Sensorless Control of PMSM Based on Backstepping-PSO Type Controller and ESO-Type Observer Using Real-Time Hardware. *Electronics*, 10, 2080, 36 p., 2021, DOI: 10.3390/electronics10172080, ISSN 2079-9292. [ISI, Q2, IF 2.9]
13. Petre, E., **D. Selișteanu**, M. Roman. Advanced nonlinear control strategies for a fermentation bioreactor used for ethanol production. *Bioresource Technology*, Elsevier, Vol. 328, Art. 124836, May 2021, doi: 10.1016/j.biortech.2021.124836, ISSN 0960-8524. [ISI, Q1, IF 11.4]
14. Petre, E., **D. Selișteanu**, M. Roman. Control schemes for a complex biorefinery plant for bioenergy and biobased products. *Bioresource Technology*, Elsevier, Vol. 295, Art. no. 122245, Jan. 2020, DOI: 10.1016/j.biortech.2019.122245, ISSN 0960-8524. [ISI, Q1, IF 11.4]
15. Stîngă, F., M. Marian, **D. Selișteanu**. Robust estimation-based control strategies for induction motors. *Complexity*, Wiley-Hindawi, Vol. 2020, Art. ID 9235701, July 2020, DOI: 10.1155/2020/9235701, ISSN 1076-2787. [ISI, Q2, IF 2.3]
16. Petre, E., M. Roman, **D. Selișteanu**. Nonlinear estimation and control schemes for a complex anaerobic digestion of microalgae with unknown kinetics and inputs. *Bioresource Technology*, Elsevier, 287:121429, 2019, doi: 10.1016/j.biortech.2019.121429, ISSN 0960-8524. [ISI, Q1, IF 11.4]
17. Marin, C., D. Popescu, E. Petre, **D. Selișteanu**. Modeling and control of the orthogonalization plants in textile industry. *IEEE Transactions on Industry Applications*, Vol. 55, Issue: 4, pp. 4247-4257, Jul.-Aug. 2019, DOI: 10.1109/TIA.2019.2907893, ISSN 0093-9994. [ISI, Q1, IF 4.4]
18. Petre, E., **D. Selișteanu**, M. Roman. Nonlinear Robust Adaptive Control Strategies for a Lactic Fermentation Process. *Journal of Chemical Technology & Biotechnology*, Wiley, Vol. 93, Issue 2, pp. 518-526, February 2018, ISSN 0268-2575. [ISI, Q2, IF 3.4]
19. Rigatos, G., P. Siano, **D. Selișteanu**, R. E. Precup. Nonlinear Optimal Control of Oxygen and Carbon Dioxide Levels in Blood, *Intel. Industrial Systems*, Springer, Vol. 3, pp. 61-75, 2017, ISSN: 2363-6912, doi:10.1007/s40903-016-0060-y. [Springer Link]
20. Roman, M., **D. Selișteanu**. Modeling of microbial growth bioprocesses: Equilibria and stability analysis. *International Journal of Biomathematics*, Vol 9, Issue 5, Art. no. 1650067, 21 p., 2016, ISSN 1793-5245. [ISI, IF 2.2]
21. Roman, M., **D. Selișteanu**. Modeling of fast reaction mechanisms for biomass conversion processes. *Combustion Science and Technology*, Taylor & Francis, Vol. 188 Issue 2, pp. 290-305, 2016, ISSN 0010-2202. [ISI, Q2, IF 1.9]
22. **Selișteanu, D.**, D. Șendrescu, V. Georgeanu, M. Roman. Mammalian cell culture process for monoclonal antibody production: Nonlinear modelling and parameter estimation. *BioMed Research International*, ISSN 2314-6133, ID 598721, 2015. [ISI, IF 3.2]
23. Petre, E., S. Tebbani, **D. Selișteanu**. Robust-adaptive control strategies for a time delay bioelectrochemical process using interval observers. *Asian Journal of Control*, Wiley, ISSN 1561-8625, 17(5):1767–1778, 2015. [ISI, IF 2.4]
24. **Selișteanu, D.**, S. Tebbani, M. Roman, E. Petre, V. Georgeanu. Microbial production of enzymes: Nonlinear state and kinetic reaction rates estimation. *Biochemical Engineering Journal*, Elsevier, ISSN 1369-703X, 91:23–36, 2014. [ISI, Q2, IF 3.9]
25. Petre, E., **D. Selișteanu**. A multivariable robust-adaptive control strategy for a recycled wastewater treatment bioprocess. *Chemical Eng. Sci.*, Elsevier, ISSN 0009-2509, 90:40–50, 2013. [ISI, Q1, IF 4.7]
26. Petre, E., **D. Selișteanu**, D. Șendrescu. Adaptive and robust-adaptive control strategies for anaerobic wastewater treatment bioprocesses. *Chemical Engineering Journal*, Elsevier, ISSN 1385-8947, 217:363–378, 2013. [ISI, Q1, IF 15.1]

27. Şulea, C., G. Manolea, **D. Selişteanu**. Informational decision support for risk reduction related to hailstorm in Oltenia region – Romania. *Natural Hazards*, Springer, ISSN 0921-030X, 66(2):835–850, 2013. [ISI, Q2, IF 3.7]
28. Roman, M., D. Popescu, **D. Selişteanu**. An interactive teaching system for bond graph modeling and simulation in bioengineering. *Journal of Educational Technology & Society*, ISSN 1436-4522, 16(4):17–31, 2013. [ISI, Q1, IF 4]
29. Roman, M., **D. Selişteanu**. Enzymatic synthesis of ampicillin: Nonlinear modeling, kinetics estimation and adaptive control. *J. Biomedicine & Biotechnology*, ID 512691, 2012. [ISI, Q2, IF 3.1]
30. **Selişteanu, D.**, E. Petre, M. Roman, D. Şendrescu. Estimation of kinetic rates in a baker's yeast fed-batch bioprocess by using nonlinear observers. *IET Control Theory & Applications*, ISSN 1751-8644, 6(2):243–253, 2012. [ISI, Q2, IF 2.6]
31. Marin, C., **D. Selişteanu**, D. Şendrescu. Nonlinear identification and control of DC-DC converter based on heterogeneous approach. *Revue Roumaine des Sciences Techniques, Série électrotechnique et énergétique*, ISSN 0035-4066, 56(3):325–335, 2011. [ISI, IF 0.7]
32. **Selişteanu, D.**, C. Marin, E. Petre, D. Şendrescu. Nonlinear observers for the estimation of kinetic parameters in an alcoholic fermentation bioprocess. *International Review of Automatic Control*, ISSN 1974-6059, 4(1):124–132, 2011. [EBSCO, CSA]
33. **Selişteanu, D.**, M. Roman, D. Şendrescu. Pseudo Bond Graph modelling and on-line estimation of unknown kinetics for a wastewater biodegradation process. *Simulation Modelling Practice and Theory*, Elsevier, ISSN 1569-190X, 18(9):1297–1313, 2010. [ISI, Q1, IF 4.1]
34. Petre, E., **D. Selişteanu**, D. Şendrescu, C. Ionete. Neural networks-based adaptive control for a class of nonlinear bioprocesses. *Neural Computing & Applications*, Springer, ISSN 0941-0643, 9(2):169–178, 2010. [ISI, Q2, IF 6]
35. **Selişteanu, D.**, E. Petre, V. Răşvan. Sliding mode and adaptive sliding-mode control of a class of nonlinear bioprocesses. *International Journal of Adaptive Control and Signal Processing*, J. Wiley & Sons, ISSN 0890-6327, 21(8-9):795–822, 2007. [ISI, Q2, IF 3.1]
36. **Selişteanu, D.** On sliding mode control of a class of nonlinear bioprocesses. Part II: Applications. *Revue Roumaine des Sciences Techniques, Série électrotechnique et énergétique*, ISSN 0035-4066, 50(4):513–522, 2005. [INSPEC, BLD – British Library Direct]
37. **Selişteanu, D.** On sliding mode control of a class of nonlinear bioprocesses. Part I: Models and control design. *Revue Roumaine des Sciences Techniques, Série électrotechnique et énergétique*, ISSN 0035-4066, 50(3):385–394, 2005. [INSPEC, BLD]
38. **Selişteanu, D.**, E. Petre. On adaptive control of a wastewater biodegradation bioprocess. *Control Engineering and Applied Informatics*, ISSN 1454-8658, 6(3):48–56, 2004. [Google Scholar – GS]
39. Bobaşu, E., **D. Selişteanu**. Reduced-order models for electrohydraulic systems control. *Control Engineering and Applied Informatics*, ISSN 1454-8658, 5(3-4):73–82, 2003. [GS]
40. **Selişteanu, D.**, E. Petre. Vibrational control of a class of bioprocesses. *Control Engineering and Applied Informatics*, ISSN 1454-8658, 3(1):39–50, 2001. [GS]

VI. Articole publicate în volumele unor manifestări ştiinţifice (selecție)

1. Popa, B., **D. Selişteanu**, I.M. Popescu. Real-Time Parallel Processing of Vibration Signals Using FPGA Technology. In: Arai, K. (ed.) *Intelligent Systems & Applications. IntelliSys 2022. LNNS*, 542. Springer, Cham, 2023. doi:10.1007/978-3-031-16072-1_18. [ISI Proc., SpringerLink]
2. Simion, M.B., **D. Selişteanu**, D. Şendrescu. Classifying Mechanical Vibrations using Artificial Neural Networks and Quantum Angle Encoding. In: *Proc. of 2022 23rd Int. Carpathian Control Conference (ICCC)*, 2022, 29 May 2022 - 01 June 2022, Romania, pp. 319-323, ISBN: 978-1-6654-6636-3, doi: 10.1109/ICCC54292.2022.9805920. [ISI Proc., IEEEXplore]

3. Căpriță, H.V., **D. Selişteanu**. Integrating AUTOSAR End-to-End Communication Protection Library Inside Automotive Actuators. In: *Proc. of 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA)*, Sinaia, Romania, 2023, pp. 1-8, doi: 10.1109/ETFA54631.2023.10275681. [[IEEEXplore](#)]
4. **Selişteanu, D.** Wastewater Treatment Plants - Classical vs. Advanced and Intelligent Control Approaches. *Plenary Lecture, Proc. of 2022 IEEE 16th Int. Symposium on Applied Computational Intelligence and Informatics (SACI)*, Timisoara, Romania, 2022, ISBN: 978-1-6654-8125-0, doi: 10.1109/SACI55618.2022.9919525. [[IEEEXplore](#)]
5. Popa, B., **D. Selisteanu**, A.E. Lorincz, T. Robert. Optimization Possibilities for the Shortest-Path Algorithms in the Context of Large Volumes of Information. In: *Proc. of 2022 8th Int. Conference on Control, Decision and Information Technol. (CoDIT)*, 2022, 17-20 May 2022, Istanbul, Turkey, pp. 361-366, ISBN: 978-1-6654-9607-0, doi: 10.1109/CoDIT55151.2022.9804024. [[ISI Proc.](#), [IEEEXplore](#)]
6. Lörincz, A.E., **D. Selişteanu**, B. Popa, T.T. Şerban, „Implementation of the Comma_v.3.0 system on AUTOSAR architecture using V2X communication", In: *Proc. of 2022 8th Int. Conference on Control, Decision and Information Technologies (CoDIT)*, 2022, 17-20 May 2022, Istanbul, Turkey, pp. 367-372, ISBN: 978-1-6654-9607-0, doi: 10.1109/CoDIT55151.2022.9804135. [[ISI Proc.](#), [IEEEXplore](#)]
7. Albița, A., **D. Selişteanu**, M. Mămuleanu. Using MQTT Protocol for Remote Monitoring of Low and Medium Power Electrical Network. In: *Proc. of 16th Int. Conf. on Engineering of Modern Electric Systems (EMES)*, 2021, ISBN:978-1-6654-4995-3, doi: 10.1109/EMES52337.2021.9484133. [[ISI Proc.](#)]
8. Georgeanu, V., M. Mămuleanu, **D. Selişteanu**. Convolutional Neural Networks for Automated Detection and Classification of Bone Tumors in Magnetic Resonance Imaging. In: *Proc. of 2021 IEEE International Conference on Artificial Intelligence, Robotics, and Communication (ICAIRC)*, 2021, Fuzhou, China, ISBN 978-1-6654-4102-5, doi: 10.1109/ICAIRC52191.2021.9545036. [[IEEEXplore](#)]
9. **Selişteanu, D.**, E. Petre, R. Prejbeanu, I.M. Popescu, S. Mehedinţeanu. Software solutions for simulation, monitoring and data acquisition in wastewater treatment plants. In: *Proc. of 21st International Carpathian Control Conference ICC'C'2020*, Oct. 27-29, 2020, Slovak Republic, ISBN: 978-1-7281-1951-9, doi: 10.1109/ICCC49264.2020.9257268. [[IEEEXplore](#)]
10. Albița, A., **D. Selişteanu**. Measurement and Display of Generated Signal Parameters: Power System Simulator and Software Application. In: *Proc. 24th Int. Conf. on System Theory, Control and Computing ICSTCC*, pp. 679-684, Oct. 8-10, 2020, Sinaia, Romania, ISBN: 978-1-7281-9809-5, doi: 10.1109/ICSTCC50638.2020.9259676. [[ISI Proc.](#), [IEEEXplore](#)]
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VII. Proiecte de cercetare (selecție)

Internaționale:

1. *Predictive and adaptive control of bioprocesses. Modelling, identification, control applications for interconnected bioprocesses – PACBIO*, contract de cercetare bilateral “Brâncuși” România – Franța, 2013-2014, contract nr. 701/17.04.2013, nr. înreg. Univ. din Craiova: 14C/16.04.2013, parteneri: Univ. din Craiova, Universitatea “Dunărea de Jos” din Galați, România, Ecole Supérieure d’Electricite SUPELEC, Gif-sur-Yvette, Franța. [[director: D. Selișteanu](#)]
2. *Joint Risk Monitoring during Emergencies in the Danube Area Border - Monitorizarea în comun a riscurilor pentru situații de urgență în zona trasfrontalieră a Dunării*, Romania-Bulgaria Cross-Border Cooperation Programme 2007-2013, IGSU, 7 parteneri (4 România, 3 Bulgaria), MIS-ETC Code: 166. Appl. No. 2S-2.2-1, 2011-2014, Partener P7 - Univ. din Craiova, director G. Manolea. [[D. Selișteanu - membru proiect](#)]
3. *ORTHO-eMAN A web-based e-training platform for Extended Human Motion Investigation in Orthopaedics*, LLP-LdV/Tol/2011/RO/008, 2011-2013, proiect internațional (România, Spania, Grecia), director D. Popescu. [[D. Selișteanu - membru proiect](#)]
4. *Predictive and cooperative control of complex systems PREDICT*, contract de cercetare bilateral “Brâncuși” România – Franța, 2009-2010, contract nr. 306/27.04.2009, nr. Univ. Craiova 26C/2009, parteneri: Univ. Craiova, Univ. Tehnică “Gh. Asachi” Iași, România, Ecole Sup. d’Electricite SUPELEC, Gif-sur-Yvette, Franța; responsabil V. Răsvan. [[D. Selișteanu - membru proiect](#)]
5. *Research concerning the sharing of educational resources via Internet*, Contract de cercetare bilateral România – China, 2009-2010, nr. ANCS 39-3/2008, parteneri: Univ. Craiova, România, Tianjin Univ., China; responsabil - D. Popescu. [[D. Selișteanu - membru proiect](#)]
6. *ECO-NET DIE: Dynamique – Interconnexions – Environnement*, contract de cercetare internațională no. 12645SD, Egide, Franța, 2006-2007, parteneri: Heudiasyc, Compiègne, LMAC, Compiègne, LAAS, Toulouse, IRCCYN, Nantes, Université de Craiova, Université Polytechnique Bucarest, Institut de Mathématiques de l'Académie Roumaine, Bucarest, Univ. T. Bata Zlin (Republica Cehă), Univ. Miskolc (Ungaria); responsabil Craiova - V. Răsvan. [[D. Selișteanu - membru proiect](#)]

Naționale:

7. *Sisteme de conducere avansată a unor bioprocese din industria alimentară (ADCOSBIO)*, PN-II-PT-PCCA-2013-4-0544, PNCDI II, Parteneriate – PCCA, contract nr. 211/2014, 2014-2017, coordonator Univ. Craiova, nr. înreg. UCV 66C/2014, parteneri: S.C. Moara Calafatului SRL, Univ. Politehnica Timișoara, Univ. „Dunărea de Jos” din Galați. [[director D. Selișteanu](#)]
8. *Dezvoltarea de modele și metode de identificare și conducere a sistemelor biotehnologice și biologice*, Contract PNCDI II, Programul: IDEI, Tipul proiectului: Proiecte de cercetare exploratorie, Cod CNCIS ID 548, 2009-2011, Universitatea din Craiova - UEFISCSU, nr. înreg. Univ. Craiova 61C/23.12.2008, nr. înreg. CNCIS 720/23.12.2008. [[director: D. Selișteanu](#)]

9. *Metode moderne de conducere adaptivă, vibrațională și alunecătoare a sistemelor neliniare. Aplicații la bioprocese de depoluare*, 2005-2006, beneficiar Ministerul Educației și Cercetării, nr. 27661/14.03.2005, Cod CNC SIS 90, Tema 17, act ad. 17C/2006, Cod CNC SIS 90, Tema 28. [director: [D. Selișteanu](#)]
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11. *CERT ENTTRUST – Soluții și tehnologii inovative bazate pe servicii SAAS (software as a service) pentru întreprindere digitală*, SC Centrul de Calcul SA (Lider), Târgu Jiu, Univ. din Craiova (partener), Programul Operațional Competitivitate, POC/163/1/3, Contract de finanțare: 396/390072/2021, 2021-2024, Cod SMIS 2014+: 120269, director I.M. Popescu. [[D. Selișteanu - membru proiect](#)]
12. *Tehnologie informațională pentru achiziția, prelucrarea paralelă, sincronizată și în timp real a unor semnale de vibrații, folosind tehnologia FPGA (TIAVIB)*, Univ. din Craiova, Cecuri de inovare PN-III-P2-2.1-CI-2017-0167, nr. 116CI/2017, nr. UCV: 21C/2017, director I.M. Popescu. [[D. Selișteanu - membru proiect](#)]
13. *Cercetări și transfer de cunoștințe în domeniul tehnologiilor și instrumentelor software pentru informatizarea proceselor industriale – TISIPRO*, Univ. din Craiova, Parteneriat pentru transfer de cunoștințe, POC (Program Operațional Competitivitate), ID / Cod My SMIS: P_40_416 / 105736, nr. contract: 61/2016, 2016-2021, director: D. Popescu. [[coordonator tehnico-științific: D. Selișteanu](#)]
14. *Parteneriate pentru transfer de cunoștințe, cercetare tehnologică și aplicată pentru soluții inovative de sisteme inteligente destinate creșterii eficienței energetice*, Univ. din Craiova, Parteneriat pentru transfer de cunoștințe, POC (programul Operațional Competitivitate), ID: P_40_196, nr. contract: 76/2016, 2016-2021, director: Mihaela Popescu. [[D. Selișteanu - membru proiect](#)]
15. *Sistem de conducere avansată a unei instalații de tip biorafinărie (BIOCON)*, PN-II-PT-PCCA-2013-4-0070, PNCDI II, Parteneriate, nr. 269/2014, 2014-2017, coordonator Univ. „Dunărea de Jos” din Galați, partener P1 Univ. din Craiova, responsabil UCV: E. Petre. [[D. Selișteanu - membru proiect](#)]
16. *An intelligent haptic robot glove for the patients suffering a cerebrovascular accident – IHRG*, Contract PNCDI II, Parteneriate – PCCA, nr. 150/2012, 2012-2016, coordonator Universitatea Politehnică București, parteneri: Univ. Tehnică „Gheorghe Asachi” din Iași, Univ. din Craiova, Spitalul Clinic de Recuperare Iași, responsabil UCV: Dorin Popescu. [[D. Selișteanu - membru proiect](#)]
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