

Publicații doctori și doctoranzi

Domeniul: Inginerie electronică, telecomunicații și tehnologii informaționale

Perioada de referință: 2021-2025

Articole indexate WOS/ISI/ERIH cu factor de impact*

1. Unified InterPlanetary Smart Parking Network for Maximum End-User Flexibility, Sensors, eISSN 1424-8220, Iacobescu, C.; Oltean, G.; Florea, C.; Burtea, B., MDPI, Sensors, 2022, <https://www.webofscience.com/wos/woscc/full-record/WOS:000741440600001>
2. A. Rusu, E. David, V. Grosu, M. Topa, A. Buzo, B. Carbunescu, G. Pelz, "On Multivariate Electrical Performance Machine Learning Driven Pre-Silicon IC Adaptive Verification," in IEEE Access, vol. 12, pp. 136436-136450, 2024, doi: 10.1109/ACCESS.2024.3463393
3. Programmable Capacitor Multiplier Based on Gm-cell with Two Outputs - Topology, Circuit Implementations and Applications, ISSN 1453-8245, Paul Coste, Paul Martari, Marius Neag, Marina Topa, Vlad Ionescu, ROMANIAN JOURNAL OF INFORMATION SCIENCE AND TECHNOLOGY, 2021
4. Programmable Gain Amplifier with Programmable Bandwidth for Ultrasound Imaging Application, ELECTRONICS, ISSN 2079-9292, István Kovács, Paul Coste, Marius Neag, MDPI, 2025
5. Type-II Compensation for Automotive Buck Converters Implemented by Fully Integrated Capacitor Multiplier, IEEE ACCESS, ISSN2169-3536, Paul Coste, István Kovács, Marius Neag, Alina-Teodora Grăjdeanu, Vlad-Alexandru Ionescu, Marina Dana Țopa, IEEE, 2022
6. Onet, R., Neag, M., Fazakas, A., Miresan, P., Petrasuc, G., Sularea, I., et. al, M. (2023). A Blended On-Campus and At-Home Approach to Laboratories on Electronic Circuits. Romanian journal of information science and technology, 2, 167-180. <https://www.romjist.ro/full-texts/paper740.pdf>
7. M.-A. Covaci, R. V. Gălătuș, L. A. Szolga, Stability improvement of high-power semiconductor laser diode regulators used in infrared solid-state laser applications. Optical and Quantum Electronics 56, 776 (2024). <https://doi.org/10.1007/s11082-024-06457-w>
8. Covaci, M.-A.; Gălătuș, R.V.; Szolga, L.A. Transient Performance Improvement for Sustainability and Robustness Coverage in Hybrid Battery Management System ASIC Integration for Solar Energy Conversion. Technologies 2025, 13, 430. <https://doi.org/10.3390/technologies13100430>
9. Covaci, M.-A.; Gălătuș, R.V.; Szolga, L.A. Graphics Processing Unit Resource Optimization for Orbital Alt-Azimuth Targeting Calibration in Alternative Laser Transmission Energetic Infrastructures. Technologies 2025, 13, 429. <https://doi.org/10.3390/technologies13100429>
10. Covaci, M.-A.; Gălătuș, R.V.; Petreus, D.M.; Szolga, L.A. Renewability and Robustness Analysis and Review for Sustainable-Technology Propulsion Systems in Modern Transportation Infrastructure Administration. Appl. Sci. 2023, 13, 13026. <https://doi.org/10.3390/app132413026>
11. Covaci, M.A.; Szolga, L.A. Black-Box Mathematical Modeling and Heuristic Optimizing of Hampson-Linde Cycle Based on Joule-Thomson Effect and Ohm's Law for Thermal Circuits. Appl. Sci. 2022, 12, 6047. <https://doi.org/10.3390/app12126047>
12. Covaci, M.A.; Szolga, L.A. Low-Voltage Plasma Generator Based on Standing Wave Voltage Magnification. Sustainability 2022, 14, 2890. <https://doi.org/10.3390/su14052890>
13. The fractal brain: scale-invariance in structure and dynamics"; Cerebral Cortex; 1047-3211; George F Grosu, Alexander V Hopp, Vasile V Moca, Harald Bârzan, Andrei Ciuparu, Maria Ercsey-Ravasz, Mathias Winkel, Helmut Linde, Raul C Mureșan; Oxford University Press; 2023, <https://doi.org/10.1093/cercor/bhad335>
14. Alexan, A.R.; Alexan, A.I.; Oniga, S. Multi-User Activity Recognition Using Plot Images Based on Ambient Sensors. Appl. Sci. 2025, 15, 2610. <https://doi.org/10.3390/app15052610>
15. Alexan, A.I.; Alexan, A.R.; Oniga, S. Real-Time Machine Learning for Human Activities Recognition Based on Wrist-Worn Wearable Devices. Appl. Sci. 2024, 14, 329. <https://doi.org/10.3390/app14010329>
16. Alexan, A.R.; Alexan, A.I.; Oniga, S. Multi-User Activity Recognition Using Plot Images Based on Ambient Sensors. Appl. Sci. 2025, 15, 2610. <https://doi.org/10.3390/app15052610>

17. Alexan, A.I.; Alexan, A.R.; Oniga, S. Real-Time Machine Learning for Human Activities Recognition Based on Wrist-Worn Wearable Devices. *Appl. Sci.* 2024, 14, 329. <https://doi.org/10.3390/app14010329>
18. O. Cosma, P. C. Pop, L. Cosma, A novel memetic algorithm for solving the generalized traveling salesman problem, *Logic Journal of the IGPL*, 2024. <https://academic.oup.com/jigpal/article-abstract/32/4/576/7632100>
19. O. Cosma, P. C. Pop, L. Cosma, A comparative study of neural network architectures for software vulnerability forecasting, *Logic Journal of the IGPL*, 2025. <https://academic.oup.com/jigpal/article-abstract/33/5/jzae075/7670724>
20. Iuliu Alexandru Pap, Stefan Oniga, "A Review of Converging Technologies in eHealth Pertaining to Artificial Intelligence," *International Journal of Environmental Research and Public Health*, vol. 19, no. 18, Art. no. 18, 2022. <https://doi.org/10.3390/ijerph191811413>
21. Iuliu Alexandru Pap, Stefan Oniga, "eHealth Assistant AI Chatbot Using a Large Language Model to Provide Personalized Answers through Secure Decentralized Communication", *Sensors* 2024, 24. <https://doi.org/10.3390/s24186140>
22. Pop, S.S.; Flutur, A.-F.; Fodor, A. Design and Implementation of an Inductive Proximity Sensor with Embedded Systems. *Sensors* 2025, 25, 6258. <https://doi.org/10.3390/s25196258>
23. E. Szilagyi, D. Petreus, M. Paulescu, T. Patarau, S.-M. Hategan, N. A. Sarbu, "Cost-effective energy management of an islanded microgrid", *Energy Reports*, Volume 10, 2023, Pages 4516-4537, ISSN 2352-4847, <https://doi.org/10.1016/j.egyr.2023.10.088>
24. "Design, implementation, and RFSoc-based validation of a multi-path RF front-end for wideband spectrum analysis, *RESULTS IN ENGINEERING*, ISSN 2590-1230, Gergo Kovacs, Raluca Nelega, Alexandru Oprea, Botond Kirei, Emanoil Surducan, Vasile Surducan, Romulus Valeriu Flaviu Turcu, Emanuel Puschita, ELSEVIER, 2025, <https://www.sciencedirect.com/science/article/pii/S2590123025030233>"
25. Mission-Critical Services in 4G/5G and Beyond: Standardization, Key Challenges, and Future Perspectives, *SENSORS*, EISSN 1424-8220, Florin Rastoceanu, Constantin Grozea, Mihai Enache, Raluca Nelega, Gergo Kovacs, Emanuel Puschita, MDPI, 2025, <https://www.mdpi.com/1424-8220/25/16/5156>
26. Leonte, S., Pastrav, A., Zamfirescu, C., Puschita, E., Voice Quality Evaluation in a Mobile Cellular Network: In Situ Mean Opinion Score Measurements. *Sensors*, 2024, 24(20), 6630. WOS:001341359000001.
27. Vandervelden, T.; De Smet, R.; Deac, D.; Steenhaut, K.; Braeken, A. Overview of Embedded Rust Operating Systems and Frameworks. *Sensors* 2024, 24, 5818.
28. Vandervelden, T.; Deac, D.; Van Glabbeek, R.; De Smet, R.; Braeken, A.; Steenhaut, K. Evaluation of 6LoWPAN Generic Header Compression in the Context of a RPL Network. *Sensors* 2024, 24, 73.
29. Van Glabbeek, R.; Deac, D.; Perale, T.; Steenhaut, K.; Braeken, A. Flexible and Efficient Security Framework for Many-to-Many Communication in a Publish/Subscribe Architecture. *Sensors* 2022, 22, 7391.
30. Deac, D.; Teshome, E.; Van Glabbeek, R.; Dobrota, V.; Braeken, A.; Steenhaut, K. Traffic Aware Scheduler for Time-Slotted Channel-Hopping-Based IPv6 Wireless Sensor Networks. *Sensors* 2022, 22, 6397.
31. Teshome, E.; Deac, D.; Thielemans, S.; Carlier, M.; Steenhaut, K.; Braeken, A.; Dobrota, V. Time Slotted Channel Hopping and ContikiMAC for IPv6 Multicast-Enabled Wireless Sensor Networks. *Sensors* 2021, 21, 1771.
32. R. Botez, A.G. Pasca, A.T. Sferle, I.A. Ivanciu, and V. Dobrota, "Efficient Network Slicing with SDN and Heuristic Algorithm for Low Latency Services in 5G/B5G Networks", *Sensors* 2023, 23(13), 6053; WOS:001030144200001 (Q2 Journal).
33. R. Botez, D. Zinca and V. Dobrota, "Redefining 6G Network Slicing: AI-Driven Solutions for Future Use Cases", *Electronics* 2025, 14(2), 368; WOS:001405206600001 (Q2 Journal).

34. R. Botez, A.G. Pasca, A.T. Sferle, I.A. Ivanciu, and V. Dobrota, "Efficient Network Slicing with SDN and Heuristic Algorithm for Low Latency Services in 5G/B5G Networks", *Sensors* 2023, 23(13), 6053; WOS:001030144200001 (Q2 Journal).
35. R. Botez, J. Costa-Requena, I.A. Ivanciu, V. Strautiu and V. Dobrota, "SDN-based Network Slicing Mechanism for a Scalable 4G/5G Core Network: A Kubernetes Approach", *Sensors* 2021, 21(11), 3773; ISSN: 1424-8220, WOS:000660676800001 (Q1 Journal).
36. R. Botez, I.A. Ivanciu, C.M. Iurian, and V. Dobrota, "Quantum Implementation of the Modified Dijkstra's Routing Algorithm", *Proceedings of the Romanian Academy - Series A*, ISSN 1454-9069, Vol. 22, No. 41, January - March 2021, pp. 91-98, Romanian Academy Publishing House, WOS:000635594600011 (Q3 Journal).
37. G.R. Andreica, G.L. Tabacar, D. Zinca, I.A. Ivanciu and V. Dobrota, "Denial of Service Attack Prevention and Mitigation for Secure Access in IoT GPS-based Intelligent Transportation Systems", *Electronics* 2024, 13(14), 2693;
38. Paul Faragó, Sebastian-Aurelian Ștefăniță, Claudia-Georgiana Cordoș, Laura-Ioana Mihăilă, Sorin Hintea, Ana-Sorina Peștean, Michel Beyer, Lăcrămioara Perju-Dumbravă and Robert Radu Ileașan, "CNN-Based Identification of Parkinson's Disease from Continuous Speech in Noisy Environments", *Bioengineering Basel*, vol.10, no.5, 2306-5354, , MDPI, 2023
39. Faragó, P., Ștefăniță, S. A., Cordoș, C. G., Mihăilă, L. I., Hintea, S., Peștean, A. S., and Ileașan- CNN-based identification of Parkinson's disease from continuous speech in noisy environments, *Bioengineering-Basel*, vol.10, no.5, 2306-5354, , R. R., MDPI, 2023
40. Lacrimioara Grama, Lorena Muscar, Corneliu Rusu, Toma TelembiciAudio Database for TIAGo Service Robot, *Carpathian Journal of Electronic and Computer Engineering*, 1844 – 9689, L, 2021.
41. Gabriel Popan, Lorena Muscar si Lacrimioara Grama- Security System Aided by Voice Fingerprint, *Carpathian Journal of Electronic and Computer Engineering*, 1844 - 9689, 2021
42. Lacrimioara Grama, Corneliu Rusu- Enhancing the Audio Achievement of the TIAGo Robot for Assistance in Medical Monitoring, *International Journal of Social Robotics*, Lorena Muscar, Springer Nature, 2025
43. Lorena Telembici, Corneliu Rusu- Audio Recognition with Graphical Interface-Based Model for Assisted Robotics, *Advances in Electrical and Computer Engineering*, 2025.
44. Romaniuc, A.-G.; Vasile, V.-C.; Borda, M.-E. -Global Navigation Satellite System Spoofing Attack Detection Using Receiver Independent Exchange Format Data and Long Short-Term Memory Algorithm, *Information*, ISSN: 2078-2489, , Anul aparitiei: 2025, Link: <https://doi.org/10.3390/info16060502>
45. C. Davidaș, E. M. Ștețco, L. M. Viman, M. S. Gabor, O. A. Pop, and T. Petrișor Jr., 'Electronic Noise Measurement of a Magnetoresistive Sensor: A Comparative Study', *Sensors*, vol. 25, no. 19, p. 6182, Oct. 2025, ISSN: 1424-8220, doi: 10.3390/s25196182, WOS:001593916700001
46. A. Rusu, E. David, V. Grosu, M. Topa, A. Buzo, B. Carbunescu, G. Pelz, "On Multivariate Electrical Performance Machine Learning Driven Pre-Silicon IC Adaptive Verification," in *IEEE Access*, vol. 12, pp. 136436-136450, 2024, doi: 10.1109/ACCESS.2024.3463393, link: <https://doi.org/10.1109/ACCESS.2024.3463393>
47. "Fast LDO Handles a Wide Range of Load Currents and Load Capacitors, up to 100 mA and Over 1μF," *IEEE Access*, vol. 10, pp. 9124–9141, Alina-Teodora Grăjdeanu, Cristian Răducan, Cosmin-Sorin Pleșa, Marius Neag, Laurențiu. Vărzaru, and Marina Dana Țopa, 2022, doi: 10.1109/ACCESS.2022.3143351, <http://dx.doi.org/10.1109/ACCESS.2022.3143351>.
48. "Linear Voltage Regulators with Gate-Driving Buffer for Automotive Applications" *IEEE Access*, vol. 12, pp. 144905–144918, Alina-Teodora Grăjdeanu, Cristian Răducan, Marius Neag, and Ionuț-Alin Ilie, 2024, doi: 10.1109/ACCESS.2024.3468882, <http://dx.doi.org/10.1109/ACCESS.2024.3468882>
49. An area-efficient automotive LDO with scalable maximum load current exhibits excellent response to line and load transients", *AEU-Int. J. Electron. Communions*, vol. 149, art. 154136, Cosmin-Sorin Pleșa, Cristian Răducan, Alina-Teodora Grăjdeanu, Ozan Serpedin, Marius Neag, May 2022, <http://dx.doi.org/10.1016/j.aeue.2022.154136>

50. "Type-II Compensation for Automotive Buck Converters Implemented by Fully Integrated Capacitor Multiplier", IEEE Access, vol. 10, pp. 37678-37688, Paul Coste, Istvan Kovacs, Marius Neag, Alina-Teodora Grăjdeanu, Vlad-Alexandru Ionescu, Marina Dana Țopa, Aprilie 2022, doi: 10.1109/ACCESS.2022.3164700, <http://dx.doi.org/10.1109/ACCESS.2022.3164700>.
51. "High-Precision Low-Temperature Drift LDO Regulator Tailored for Time-Domain Temperature Sensors", MDPI Sensors, vol. 22, no. 4, pp 1518, Cristian Răducan, Marius Neag, Alina-Teodora Grăjdeanu, Marina Țopa, Andrei Negoită, Feb. 2022, <http://dx.doi.org/10.3390/s22041518>
52. S. Barburiceanu, S. Meza, S. Orza, R. terebes, "Convolutional Neural Networks for Texture feature Extraction. Application for Leaf Disease Classification in Precision Agriculture", IEEE ACCESS, vol. 9, pp.160085 - 160103, 2021, DOI: 10.1109/ACCESS.2021.3131002, WOS: 000728916800001, ISSN: 2169-3536, <https://ieeexplore.ieee.org/document/9627678>
53. S. Barburiceanu, R. Terebes, S. Meza, "3D Texture Feature Extraction and Classification Using GLCM and LBP-Based Descriptors", Applied Science 11, no 5:2332, DOI:10.3390/app11052332, WOS: 000627990600001, ISSN: 2076-3417, <https://www.mdpi.com/2076-3417/11/5/2332>
54. V.V. Moca*, Bârzan H.*, Nagy-Dăbâcan A., Mureșan R.C., Time-frequency super-resolution with superlets, Nature Communications (ISSN 2041-1723), Nature Publishing Group 2021 <https://www.nature.com/articles/s41467-020-20539-9>
55. 9Time-frequency representations of brain oscillations: which one is better?Frontiers in Neuroinformatics (ISSN 1662-5196) Bârzan H., Ichim A.-M., Moca V.V., Mureșan R.C. 2022, Frontiers<https://www.frontiersin.org/articles/10.3389/fninf.2022.871904>
56. The Fractal Brain: Scale-invariance in structure and dynamics Cerebral Cortex (ISSN 1566-6816), Grosu G.F., Hopp A.V., Moca V.V., Bârzan H., Ciuparu A.C., Ercsey-Ravasz M., Winkel M., Linde H., Mureșan R.C.2022, Oxford University Press
57. Experimental Evaluation of an SDR-based UAV Localization System, Denumire publicație: Sensors, ISBN: 1424-8220, Autorii: Cristian Codău, Rareș Buta, Andra Păstrăv, Paul Dolea, Tudor Palade, Emanuel Pușchiță, Editura: MDPI, Anul apariției: 2024 , link: <https://doi.org/10.3390/s24092789>.WOS:001220021900001. (Q2)."
58. SpaceWire-to-UWB Wireless Interface Units for Intra-spacecraft Communication Links, Denumire publicație:Sensors, ISBN: 1424-8220, Autorii: Rares-Calin Buta, Martin Drobczyk, Thomas Firchau, Andre Luebken, Tudor Petru Palade,Andra Pastrav, Emanuel Puschita, Editura: MDPI, Anul apariției:2023, link: <https://doi.org/10.3390/s23031363>,WOS:000931901000001 (Q2)."
59. SDR-based Ku-band multifeed receiver for SST, Denumire publicație: IEEE Access, ISSN: 2169-3536, Autorii:Rareș-Călin Buta, Andra Păstrăv, Paul Dolea, Cristian Codău, Tudor Palade, Emanuel Pușchiță, Editura: IEEE, Anul apariției:2024, link: <https://doi.org/10.1109/ACCESS.2024.3430046>"
60. Wireless-SpaceWire bridge for intrasatellite transmissions, Denumire publicație: International Journal of Satellite Communications and Networking, ISSN: 1542-0981, Autorii: Rareș-Călin Buta, Emanuel Pușchiță, Botond Sandor Kirei, Cristian Codău, Tudor Palade, Paul Dolea, Andra Păstrăv, Editura: John Wiley & Sons Ltd., Anul apariției: 2023, link:<https://doi.org/10.1002/sat.1479> WOS:000954308100001 (Q3)
61. Experimental Evaluation of an SDR-based UAV Localization System, Denumire publicație: Sensors, ISBN: 1424-8220, Autorii: Cristian Codău, Rareș Buta, Andra Păstrăv, Paul Dolea, Tudor Palade, Emanuel Pușchiță, Editura: MDPI, Anul apariției: 2024, link: <https://doi.org/10.3390/s24092789>. WOS:001220021900001. (Q2).
62. SDR-based Ku-band multifeed receiver for SST, Denumire publicație: IEEE Access, ISSN: 2169-3536, Autorii: Rareș-Călin Buta, Andra Păstrăv, Paul Dolea, Cristian Codău, Tudor Palade, Emanuel Pușchiță, Editura: IEEE, Anul apariției: 2024, link: <https://doi.org/10.1109/ACCESS.2024.3430046>.
63. Wireless-SpaceWire bridge for intrasatellite transmissions, Denumire publicație: International Journal of Satellite Communications and Networking, ISSN: 1542-0981, Autorii: Rareș-Călin Buta, Emanuel Pușchiță, Botond Sandor Kirei, Cristian Codău, Tudor Palade, Paul Dolea, Andra Păstrăv, Editura: John Wiley & Sons Ltd., Anul apariției: 2023, link: <https://doi.org/10.1002/sat.1479> WOS:000954308100001. (Q3).

64. Radu Păpară, Loredana Grec, Ioana-Adriana Potarniche and Ramona Gălătuș Voichița., "Testing of Indoor Obstacle-Detection Prototypes Designed for Visually Impaired Persons," *Applied Sciences* 14(5), 1767–1767 (2024).
65. 9Time-frequency representations of brain oscillations: which one is better? *Frontiers in Neuroinformatics* (ISSN 1662-5196) Bârzan H., Ichim A.-M., Moca V.V., Mureșan R.C. 2022, *Frontiers* <https://www.frontiersin.org/articles/10.3389/fninf.2022.871904>
66. S. Sharifi, I. Ferencz, T. Kamel, D. Petruș, P. Tricoli, Medium-voltage DC electric railway systems: A review on feeding arrangements and power converter topologies, *IET Electr. Syst. Transp.*, vol. 12, Issue 4., pp. 223-237, <https://doi.org/10.1049/els2.12054>, 2022.
67. I. Ferencz, D. Petreus, A Power Electronic Traction Transformer Model for a New Medium Voltage DC Electric Railway, *Advances in Electrical and Computer Engineering (AECE)*, vol. 21, no. 3, pp. 99-108, 2021, <https://doi.org/10.4316/AECE.2021.03012>.
68. E. Jecan, C. Pop, O. Ratiu, and E. Puschita, "Predictive Energy-Aware Routing Solution for Industrial IoT Evaluated on a WSN Hardware Platform," *Sensors*, vol. 22, no. 6, p. 2107, Mar. 2022, doi: 10.3390/s22062107. <https://doi.org/10.3390/s22062107>, (Q2), WOS:000946233900001.
69. R. Nelega, DI Greu, E Jecan, V Rednic, C Zamfirescu, E. Puschita and F. Turcu, "Prediction of Power Generation of a Photovoltaic Power Plant Based on Neural Networks," *IEEE Access*, vol. 11, pp. 20713–20724, 2023, doi: 10.1109/ACCESS.2023.3249484, <https://doi.org/10.1109/ACCESS.2023.3249484>, (Q2), WOS:000774340400001
70. On Spectral-Spatial Classification of Hyperspectral Images Using Image Denoising and Enhancement Techniques, Wavelet Transforms and Controlled Data Set Partitioning; Remote Sensing, Volume 14, Issue 6; 2072-4292; Miclea, Andreia Valentina; Terebes, Romulus Mircea; Meza, Serban; Cislariu, Mihaela; MDPI , ST ALBAN-ANLAGE 66, BASEL, SWITZERLAND, CH-4052; 2022; <https://www.webofscience.com/wos/woscc/full-record/WOS:000776347600001>
71. Minteuan, G.; Palade, T.; Puschita, E.; Dolea, P.; Pastrav, A. Monopulse Secondary Surveillance Radar Coverage—Determinant Factors. *Sensors* 2021, 21, 4198. <https://doi.org/10.3390/s21124198> WOS:000666787600001 Article
72. "Radu Păpară, Loredana Grec, Ioana-Adriana Potarniche and Ramona Gălătuș Voichița., "Testing of Indoor Obstacle-Detection Prototypes Designed for Visually Impaired Persons," *Applied Sciences* 14(5), 1767–1767 (2024)."
73. Adaptive Cruise Control in Electric Vehicles with Filed Oriented Control, Articol, ISSN: 2076-3417, A.-M. Petri, D. Petreus, *Applied Sciences*, 2022, <https://doi.org/10.3390/app12147094>
74. Pop H., Grama A. Fodor A., Rusu C. - Infrastructure Development for Electric Vehicle Charging Stations in Cluj Napoca Municipality - A Case Study, *Energies* 2023, 16, 3552. DOI: 10.3390/en16083552, WOS: 000979002600001
75. "Popescu Marius Claudiu, Learning bounds for quantum circuits in the agnostic Setting, *Quantum Information Processing*, vol. 20, no. 9, 2021. DOI:10.1007/s11128-021-03225-7, WOS:000692406000004, Q1 <https://link.springer.com/article/10.1007/s11128-021-03225-7>"
76. Popescu Marius Claudiu, Grama Lacramioara, and Rusu Corneliu Gheorghe, A highly scalable method for extractive text summarization using convex optimization, *Symmetry*, vol. 13, no. 10, 2021. DOI:10.3390/sym13101824, WOS:000717213500001, Q2 <https://www.mdpi.com/2073-8994/13/10/1824>"
77. Classification of Food Additives Using UV Spectroscopy and One-Dimensional Convolutional Neural Network, Potărniche I.A, Saroși C., Terebeș R.M, Szolga L., Gălătuș R., *Sensors* 2023, 23(17), 7517; <https://doi.org/10.3390/s23177517>
78. Automotive Switched-Capacitor DC–DC Converter With High BW Power Mirror and Dual Supply Driver, Cristian Răducan; Marius Neag; Adrian-Gabriel Băjenaru, *IEEE Transactions on Circuits and Systems I: Regular Papers* (Volume: 69, Issue: 1, January 2022), DOI: 10.1109/TCSI.2021.3099903
79. Slew-Rate Booster and Frequency Compensation Circuit for Automotive LDOs, Cristian Răducan; Marius Neag, *IEEE Transactions on Circuits and Systems I: Regular Papers* (Volume: 69, Issue: 1, January 2022), DOI: 10.1109/TCSI.2021.3094897

80. High-Precision Low-Temperature Drift LDO Regulator Tailored for Time-Domain Temperature Sensors, Cristian Răducan, Marius Neag, Alina Grăjdeanu, Marina Țopa, Andrei Negoită, Sensors 2022, 22(4), 1518; <https://doi.org/10.3390/s22041518>
81. Fast LDO Handles a Wide Range of Load Currents and Load Capacitors, up to 100 mA and Over 1μF, Alina-Teodora Grăjdeanu; Cristian Răducan; Cosmin-Sorin Pleșa; Marius Neag; Laurențiu Vărzaru; Marina Dana Țopa, IEEE Access (Volume: 10), 14 January 2022, DOI: 10.1109/ACCESS.2022.3143351
82. An area-efficient automotive LDO with scalable maximum load current exhibits excellent response to line and load transients, C.-S. Plesa, C. Răducan, A.-T. Grăjdeanu, O. Serpedin, M. Neag, AEU - International Journal of Electronics and Communications, Volume 149, May 2022, 154136, <https://doi.org/10.1016/j.aue.2022.154136>
83. High Power Supply Rejection Capacitor-less Low Dropout Regulators Based on High Slew Rate Symmetrical Operational Transconductance Amplifiers, Iulian SULAREA, Cristian RADUCAN, and Marius NEAG, ROMANIAN JOURNAL OF INFORMATION SCIENCE AND TECHNOLOGY, Volume 25, Number 2, 2022, 179–204, <https://www.romjst.ro/full-texts/paper716.pdf>
84. E.M.Stetco, O.A.Pop, A.Grama, D.Pitica and M.S.Gabor, "Manufacturing, Characterization, and Simulation Model Design for a Current Sensor Based on a Spin-Valve Magnetoresistive Microstructure," in IEEE Transactions on Components, Packaging and Manufacturing Technology, vol.12, no.3, pp.422-428, March 2022, doi: 10.1109/TCPMT.2022.3151952, WOS:000792916300009, ISSN 2156-3950. <https://www.webofscience.com/wos/woscc/full-record/WOS:000792916300009>
85. E.Stetco, T.Petrisor jr., O.Pop, M.Belmeguenai, I.M.Miron, M.S.Gabor, Diode and selective routing functionalities control led by geometry in current-induced spin-orbit torque driven magnetic domain wall devices, Nano Letters 2024 24 (44), 13991-13997 DOI: 10.1021/acs.nanolett.4c03339"
86. Low-Cost Technologies that can be Integrated into Medical Education in Emerging Areas, Paul Țoța, Mircea-Florin Vaida, Curr Med Imaging . 2022;18(9):1016-1029. doi: 10.2174/1573405618666220328093512
87. The fractal brain: scale-invariance in structure and dynamics"; Cerebral Cortex; 1047-3211; George F Grosu, Alexander V Hopp, Vasile V Moca, Harald Bârzan, Andrei Ciuparu, Maria Ercsey-Ravasz, Mathias Winkel, Helmut Linde, Raul C Mureșan; Oxford University Press; 2023, <https://doi.org/10.1093/cercor/bhad335>
88. Trejo, Diego E. Hernandez, Andrei Ciuparu, Pedro Garcia da Silva, Cristina M. Velasquez, Martin B. Davis, Raul C. Muresan, and Dinu F. Albeanu. "Cortical-bulbar feedback supports behavioral flexibility during rule-reversal." Chemical Senses 47 (2022). WOS:000936532400078
89. L. Ivanciu, I. Ivanciu, P. Farago, M. Roman and S. Hintea, "An ECG-based Authentication System Using Siamese Neural Networks", Journal of Medical and Biological Engineering, 2021. doi: 10.1007/s40846-021-00637-9, WOS:000668062300002

Articole științifice publicate în volumele unor conferințe WOS/ISI/ERIH

1. A. Rusu, E. David, M. Țopa, B. Cărbunescu, A. Buzo, G. Pelz, "Comparative Evaluation of Nonlinear Regression Algorithms for Pre-Silicon Verification Methods", In: 2025 International Symposium on Signals, Circuits and Systems (ISSCS), Iași, România, 2025, pp. 1-4, doi: 10.1109/ISSCS66034.2025.11105648
2. Kovacs, B. Carbunescu-Stoenescu, A. Buzo, E. David, M. Topa and G. Pelz, "Frontend-Backend Integrated Circuit Device Linking Using Machine Learning Algorithms", SMACD 2024, Volos, Greece, pp. 1-4, doi: 10.1109/SMACD61181.2024.10745402
3. A. Carbunescu-Stoenescu, E. David, M. Topa, A. Buzo and G. Pelz, "Distribution Modelling for Yield Analysis using Variational Autoencoders," 2023 International Symposium on Signals, Circuits and Systems (ISSCS), Iasi, Romania, 2023, pp. 1-5, doi: 10.1109/ISSCS58449.2023.10190853

4. A. Rusu, I. Kovacs, B. Cărbunescu, M. Țopa, A. Buzo and G. Pelz, "Electrical Parameters Prediction for Fab-to-Fab IC Product Migration," 2021 IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME), Timisoara, Romania, 2021, pp. 117-120, doi: 10.1109/SIITME53254.2021.9663703
5. Automotive NMOS Series Regulator with Frequency Compensation Based on Active Capacitance Multiplier that Improves Transient Response, Conferința: International Semiconductor Conference - CAS 2025. Autori: P. Coste, P. Mireșan, C. Răducan, M. Neag, M. Țopa. 2025
6. A. Battigelli, C. -S. Pleșa, G. -G. Simeon and M. Neag, "Electro-thermal analysis for automotive LDOs with reverse current protection," 2024 30th International Workshop on Thermal Investigations of ICs and Systems (THERMINIC), Toulouse, France, 2024, pp. 1-4, doi: 10.1109/THERMINIC62015.2024.10732362
7. Battigelli, M. Neag and C. S. Pleșa, "Low Quiescent Current Tracking LDO for Automotive Applications," 2024 International Semiconductor Conference (CAS), Sinaia, Romania, 2024, pp. 149-152, doi: 10.1109/CAS62834.2024.10736710.
8. Battigelli, R. Onet, M. Neag and C. S. Pleșa, "A super Class AB OTA with High Slew-Rate for Automotive LDOs," 2023 International Semiconductor Conference (CAS), Sinaia, Romania, 2023, pp. 183-186, doi: 10.1109/CAS59036.2023.10303644
9. " M. Grezer, M. Țopa, E. David, A. Buzo, and G. Pelz, ""Using symbolic regression metamodels for integrated circuits production"", in 2024 15th International Conference on Advanced Semiconductor Devices and Microsystems (ASDAM), Smolenice, Slovakia, 2024, pp. 18–21, <https://doi.org/10.1109/ASDAM63148.2024.10844676>"
10. M. Grezer, A-A. Bunea, V. Călințu, C. Bănică, M. Țopa, A. Buzo, G. Pelz, "Comparative Study of Human and LLM-Based Surrogate Modeling Using tool-Integrated React Agents", in 2025 International Semiconductor Conference (CAS), Sinaia, Romania, 2025, DOI: 10.1109/CAS66707.2025.11222202
11. N. A. Braic, E. Vladu, G. Turcan, G. Petrașuc and M. Neag, "FPGA implementation of fixed-point arithmetic voltage mode controller for the Buck converter," 2021 9th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2021, pp. 1-6, doi: 10.1109/MPS52805.2021.9492710.
12. E. Vladu, N. Braic, M. Neag and O. Pop, "Comparison between peak and an improved one-cycle current mode control of a buck converter power stage," 2021 International Semiconductor Conference (CAS), Romania, 2021, pp. 209-212, doi: 10.1109/CAS52836.2021.9604139
13. E. Vladu, N. Braic, P. Martari, M. Neag and V. Moleavin, "Digital Dual Mode control VCM-Burst of DC-DC Buck Converter Operating Over Wide Ranges of Input Voltages and Load Currents," 2023 International Semiconductor Conference (CAS), Sinaia, Romania, 2023, pp. 167-170, doi: 10.1109/CAS59036.2023.10303681.
14. 2023 International Semiconductor Conference (CAS) - Marian Elena- Andreea, Farcas Madalina Daniela, Onet Raul-Ciprian, Comparison of Three Overcurrent Protection Circuits for LDOs, <https://ieeexplore.ieee.org/document/10303716>
15. 2025 International Semiconductor Conference (CAS) - Marian Elena- Andreea, Farcas Madalina Daniela, Neag Marius-Gheorghe, Onet Raul-Ciprian, Design Methodology for a Low-Power Relaxation Oscillator, <https://ieeexplore.ieee.org/document/11222298>
16. G. Emilia, C. Iulan, R. Florian, I. Ionuț-Alin, D. C. Giovanni and O. Raul, "A Procedural Sizing Approach for LDO Modules Using AnaGen Methodology," 2024 International Semiconductor

- Conference (CAS), Sinaia, Romania, 2024, pp. 141-144, doi: 10.1109/CAS62834.2024.10736797.
17. S.A. Parfenov, E. Gheorghiță, I. Câmpanu, C. Vișan, "An automatic approach on sizing current limitation circuitry for linear regulators used in PMICs", in 2025 International Semiconductor Conference (CAS), Sinaia, Romania, 2025 (Accepted for publication)
 18. Empowering Accessibility: Application for Individuals with Visual Impairment", Intelligent Systems Conference (IntelliSys) 28 - 29 August 2025 in Amsterdam, The Netherlands, Authors: Gal Oscar și Mircea Giurgiu. Accepted for publication in: [978-3-032-07108-8, IntelliSys 2025, Volume 3, LNNS 1660, paper approval (633388_1_En, Chapter 6)]
 19. Objective Evaluation of Romanian TTS Systems: Glow-TTS and VITS", 27th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC) September 22-25, Timișoara, România, Authors: Oscar Gal and Mircea Giurgiu.
 20. M. -A. Covaci, R. V. Gălățuș and L. A. Szolga, "Variable-Length Infrared Laser Cavity for Alternative Energetic Infrastructures," 2024 Advanced Topics on Measurement and Simulation (ATOMS), Constanta, Romania, 2024, pp. 109-112, doi: 10.1109/ATOMS60779.2024.10921555.
 21. M. -A. Covaci, R. Voichița Galatuș and L. Andras Szolga, "Cascade PI Constant Current Regulator for High Power Infrared Laser Diode Bars," 2023 23rd International Conference on Transparent Optical Networks (ICTON), Bucharest, Romania, 2023, pp. 1-4, doi: 10.1109/ICTON59386.2023.10207291"
 22. M. -A. Covaci, R. Voichița Galatuș and L. Andras Szolga, "Cascade PI Constant Current Regulator for High Power Infrared Laser Diode Bars," 2023 23rd International Conference on Transparent Optical Networks (ICTON), Bucharest, Romania, 2023, pp. 1-4, doi: 10.1109/ICTON59386.2023.1020729
 23. M. -A. Covaci and L. A. Szolga, "Hampson-Linde Cryogenic Cooler Modeling and Optimization in Matlab/Simulink," 2021 6th International Conference on Smart and Sustainable Technologies (SpliTech), Bol and Split, Croatia, 2021, pp. 1-5, doi: 10.23919/SpliTech52315.2021.9566388
 24. Low-Cost Portable Fiber-Optic Sensing System Using a Smartphone-Based Broadband Light Source and 3D-Printed Coupler based on Diffuser Sphere, authors Lucian Virtic, Georgiana Todoran, Tiberiu Marita, Ramona Galatus, Technical University of Cluj-Napoca, accepted paper at Advances in 3OM and Photonics Technologies – 2025 , 8-11 Decembrie 2025
 25. Distributed UV Sensing with Optical Fluorescent Fiber and IoT Integration, for Monitoring Light-Sensitive Artifacts, accepted paper at Advances in 3OM and Photonics Technologies – 2025 , 8-11 Decembrie 2025, Ramona Galatus¹, Octavian Axinte², Lucian Virtic¹, Tiberiu Marita, Technical University of Cluj-Napoca
 26. Reinforced Hybrid Wiener Deconvolutional-Convolutional Autoencoders Based Image Deblurring", 2022 International Symposium on Electronics and Telecommunications (ISETC); 2475-7861, George F Grosu, Romulus Terebes, 2022
 27. Chambolle's Projection-based Total Variation Deepnet Layer for Image Denoising", 2023 IEEE 19th International Conference on Intelligent Computer Communication and Processing (ICCP), George Florin Grosu, Romulus Terebes, 2023
 28. Exploiting the Self-Organizing Map for Spike Sorting", 2023 IEEE 19th International Conference on Intelligent Computer Communication and Processing (ICCP), Eugen-Richard Ardelean, George Florin Grosu, Romulus Terebeș, Mihaela Dinșoreanu, 2023

29. Alexan, A. Alexan and Ș. Oniga, "Activity recognition using unsupervised learning," 2022 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2022, pp. 1-6, doi: 10.1109/AQTR55203.2022.9801956
30. Alexan, A. Alexan and Ș. Oniga, "Single user activity recognition with Density Activity Abstraction Graphics Algorithm," 2022 IEEE 2nd Conference on Information Technology and Data Science (CITDS), Debrecen, Hungary, 2022, pp. 7-12, doi: 10.1109/CITDS54976.2022.9914012.
31. Alexan, A. Alexan and Ș. Oniga, "Smart watch activity recognition using plot image analysis," 2022 IEEE 2nd Conference on Information Technology and Data Science (CITDS), Debrecen, Hungary, 2022, pp. 1-6, doi: 10.1109/CITDS54976.2022.9914230., Electronic ISBN:978-1-6654-9653-7
32. Alexan, A. Alexan and Ș. Oniga, "Smartwatch activity recognition feature comparison using ML.net," 2022 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2022, pp. 1-6, doi: 10.1109/AQTR55203.2022.9801919., Electronic ISBN:978-1-6654-7933-2
33. Alexan, A. Alexan and Ș. Oniga, "Activity recognition using unsupervised learning," 2022 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2022, pp. 1-6, doi: 10.1109/AQTR55203.2022.9801956.
34. Alexan, A. Alexan and Ș. Oniga, "Single user activity recognition with Density Activity Abstraction Graphics Algorithm," 2022 IEEE 2nd Conference on Information Technology and Data Science (CITDS), Debrecen, Hungary, 2022, pp. 7-12, doi: 10.1109/CITDS54976.2022.9914012.
35. Alexan, A. Alexan and Ș. Oniga, "Smart watch activity recognition using plot image analysis," 2022 IEEE 2nd Conference on Information Technology and Data Science (CITDS), Debrecen, Hungary, 2022, pp. 1-6, doi: 10.1109/CITDS54976.2022.9914230., Electronic ISBN:978-1-6654-9653-7
36. Alexan, A. Alexan and Ș. Oniga, "Smartwatch activity recognition feature comparison using ML.net," 2022 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2022, pp. 1-6, doi: 10.1109/AQTR55203.2022.9801919., Electronic ISBN:978-1-6654-7933-2
37. L. Cosma, Ș.V. Oniga, O. Cosma, "Ensemble Deep Learning Model for AI-Powered Cyber-Physical Systems in Precision Agriculture", Doctoral Conference on Computing, Electrical and Industrial Systems, 2025. https://link.springer.com/chapter/10.1007/978-3-031-97051-1_8
38. L. Cosma, Ș.V. Oniga, O. Cosma, "A Compact Deep Learning Architecture for Multi-Label Classification of Plant Diseases", Proc. IEEE ICE/ITMC 2025, IEEE Xplore. <https://ieeexplore.ieee.org/abstract/document/11106670>
39. L. Cosma, O. Cosma, "Forecasting the Unpredictable: Deep Neural Networks in the Volatile World of Cryptocurrencies", Proc. IEEE ICE/ITMC 2025, IEEE Xplore. <https://ieeexplore.ieee.org/abstract/document/11106538>
40. O. Cosma, L. Cosma, "A novel CNN approach for accurate tomato disease classification", Proc. IEEE ICE/ITMC 2024, IEEE Xplore. <https://ieeexplore.ieee.org/abstract/document/10794256>
41. O. Cosma, L. Cosma, "TPC_Net: An Efficient CNN architecture for tomato plant disease and pest classification", Proc. SOMI 2024, Springer. https://link.springer.com/chapter/10.1007/978-3-031-75010-6_19
42. O. Cosma, P.C. Pop, L. Cosma, "A hybrid based genetic algorithm for solving the clustered generalized traveling salesman problem", Proc. HAIS 2023, Springer. https://link.springer.com/chapter/10.1007/978-3-031-40725-3_30

43. O. Cosma, P.C. Pop, L. Cosma, "Forecasting the number of bugs and vulnerabilities in software components using neural network models", Proc. CISIS 2022, Springer. https://link.springer.com/chapter/10.1007/978-3-031-18409-3_16
44. O. Cosma, P.C. Pop, L. Cosma, "An effective hybrid genetic algorithm for solving the generalized traveling salesman problem", Proc. HAIS 2021, Springer. https://link.springer.com/chapter/10.1007/978-3-030-86271-8_10
45. F. A. Florin, P. Septimiu Sever and B. Vlad, "Evaluating the Performance of Measurements Systems Using Data Processing Methods Based on Kalman Filter," 2024 47th International Spring Seminar on Electronics Technology (ISSE), Prague, Czech Republic, 2024, pp. 1-4, doi: 10.1109/ISSE61612.2024.10604275, ISBN 979-8-3503-8548-9979-8-3503-8547-2, WOS:001283808200094
46. Active balancing using the DC2100B-C and DC2100B-D module, 2024 47TH INTERNATIONAL SPRING SEMINAR ON ELECTRONICS TECHNOLOGY, ISSE 2024, 2161-2536, Olteanu Mirela, Dorin Petreus, Ana-Maria Petri, 2024, <https://www.webofscience.com/wos/alldb/full-record/WOS:001283808200047>
47. Battery Digital Twins, 2022 45TH INTERNATIONAL SPRING SEMINAR ON ELECTRONICS TECHNOLOGY (ISSE), 2161-2536, Olteanu Mirela, Dorin Petreus, 2022, <https://www.webofscience.com/wos/alldb/full-record/WOS:000853642200017>
48. Study on Thermal Management Systems for Li-ion Cell Batteries, 2025 International Spring Seminar on Electronics Technology (ISSE), Mirela Olteanu, Dorin Petreus, 2025. <https://ieeexplore.ieee.org/abstract/document/11120929>
49. N. A. Sarbu and D. Petreus, "Intra-Day Optimal Dispatching of an Islanded Microgrid under Solar Power Uncertainty," 2024 47th International Spring Seminar on Electronics Technology (ISSE), Prague, Czech Republic, 2024, pp. 1-5, doi: 10.1109/ISSE61612.2024.10604112
50. N. A. Sarbu and D. Petreus, "State of Charge Estimation of Li-Ion Batteries using Artificial Neural Networks," 2022 45th International Spring Seminar on Electronics Technology (ISSE), Vienna, Austria, 2022, pp. 1-8, doi: 10.1109/ISSE54558.2022.9812815
51. N. Stroia, D. Moga, D. Petreus, N. A. Sarbu, E. Lazar and A. Lodin, "Optimal resource scheduling for a greenhouse powered by an islanded microgrid," 2024 47th International Spring Seminar on Electronics Technology (ISSE), Prague, Czech Republic, 2024, pp. 1-5, doi: 10.1109/ISSE61612.2024.10603769
52. N. A. Sarbu and D. Petreus, "Model Development for an Islanded Microgrid," 2023 46th International Spring Seminar on Electronics Technology (ISSE), Timisoara, Romania, 2023, pp. 1-6, doi: 10.1109/ISSE57496.2023.10168345
53. E. Szilagyi, D. Petreus, T. Patarau and N. A. Sarbu, "Stochastic Dynamic Programming Based Optimal Energy Management for an Islanded Microgrid," 2023 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2023 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Istanbul, Turkiye, 2023, pp. 1-5, doi: 10.1109/ACEMP-OPTIM57845.2023.10287069
54. N. A. Sarbu, D. Petreus, E. Szilagyi and T. Patarau, "Day-Ahead Cost Optimization of an Islanded Microgrid: A Practical Approach," 2023 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2023 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Istanbul, Turkiye, 2023, pp. 1-7, doi: 10.1109/ACEMP-OPTIM57845.2023.10287024

55. N. A. Sârbu and D. Petreuş, "Hardware in the Loop Simulation for Renewable Energy Resources," 2025 International Spring Seminar on Electronics Technology (ISSE), Budapest, Hungary, 2025, pp. 1-5, doi: 10.1109/ISSE65583.2025.11120906.
56. Vladimir Voicu; Dorin Petreuş; Radu Etz; George Mois, IoT Sensor Node for Solar Energy Measurements, 2025 26th International Carpathian Control Conference (ICCC), DOI: 10.1109/ICCC65605.2025.11022931
57. Vladimir Voicu; Dorin Petreuş; Emil Cebuc; Silviu Băjenaru Marcu, University Identity and Access Management Infrastructure with Keycloak: Lessons Learned, 2024 23rd RoEduNet Conference: Networking in Education and Research (RoEduNet), DOI: 10.1109/RoEduNet64292.2024.10722517
58. Vladimir Voicu; Dorin Petreus; Emil Cebuc; Radu Etz, Industrial IoT (IIOT) Architecture for Remote Solar Plant Monitoring, 2022 21st RoEduNet Conference: Networking in Education and Research (RoEduNet), DOI: 10.1109/RoEduNet57163.2022.9921045
59. Vladimir Voicu; Dorin Petreus; Emil Cebuc; Radu Etz, Data Acquisition System for Forecasting Applications of Photovoltaic Power Production, 2023 22nd RoEduNet Conference: Networking in Education and Research (RoEduNet), DOI: 10.1109/RoEduNet60162.2023.10274911
60. Vladimir Voicu; Dorin Petreus; Radu Etz, Internet of Things System for Solar Resource Monitoring, 2023 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2023 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), DOI: 10.1109/ACEMP-OPTIM57845.2023.10287022
61. Vladimir Voicu; Dorin Petreus; Radu Etz, Solar Irradiance Nowcasting using IoT with LSTM-RNN, 2022 IEEE 28th International Symposium for Design and Technology in Electronic Packaging (SIITME), DOI: 10.1109/SIITME56728.2022.9988085
62. Vladimir Voicu; Dorin Petreus; Emil Cebuc; Radu Etz, An IoT Photovoltaic Sensing System, 2021 20th RoEduNet Conference: Networking in Education and Research (RoEduNet), DOI: 10.1109/RoEduNet54112.2021.9638286
63. Fabrication and Experimental Analysis of a Multi-Voltage Level Switching Circuit, 2025 International Spring Seminar on Electronics Technology (ISSE), Kovacs Gergo, Nelega Raluca Surducu Vasile, Surducu Emanuel, Puschita Emanuel, 2025. <https://ieeexplore.ieee.org/document/11120954>
64. M. -M. Mezei and Z. A. Polgar, "A Quality-Improving Method for APT-Type NOAA Meteorological Satellite Signals," 2024 International Symposium on Electronics and Telecommunications (ISETC), Timisoara, Romania, 2024, pp. 1-7, doi: 10.1109/ISETC63109.2024.10797266
65. Considerations regarding the study of EMC filters applied to power inverters -2025 International Spring Seminar on Electronics Technology (ISSE), 14-18 May 2025, Budapest, Hungary, 10.1109/ISSE65583.2025.11121052. Indexat IEEE Xplore 19 August 2025. Autori: BANCU TUDOR, EMILIAN CEUCA
66. A TeraRanger One Based LiDAR, 2024 47th International Spring Seminar on Electronics Technology (ISSE) ,Prague, Czech Republic, Pena Madalina; Gomboş Andreea; Emilian Ceuca, Date Added to IEEE Xplore: 26 July 2024
67. Advanced Noise Suppression Techniques in ECG Systems: Combining Right-Leg Drive (RLD) Amplifiers with Digital Signal Processing (DSP), 2025 International Spring Seminar on Electronics Technology (ISSE), Gomboş Andreea; Pena Mădălina; Emilian Ceuca; Peter Udvardy, Date Added to IEEE Xplore: 19 August 2025
68. Development of an Intelligent EEG-Based System for Monitoring Environmental Impact on Human Neurophysiology, 2025 International Spring Seminar on Electronics Technology (ISSE), Gomboş

- Andreea; Pena Mădălina; Emilian Ceuca; Peter Udvardy ,Date Added to IEEE Xplore: 19 August 2025
69. Bioimpedance Circuit Simulation for Real-Time Hydration Assessment in Athletic Performance Monitoring, 2025 International Spring Seminar on Electronics Technology (ISSE), Pena Madalina; Gombos Andreea; Emilian Ceuca; Peter Udvardy, Date Added to IEEE Xplore: 19 August 2025
70. A TeraRanger One Based LiDAR, 2024 47th International Spring Seminar on Electronics Technology (ISSE) ,Prague, Czech Republic, Pena Madalina; Gomboș Andreea; Emilian Ceuca,Date Added to IEEE Xplore: 26 July 2024
71. Development of an Intelligent EEG-Based System for Monitoring Environmental Impact on Human Neurophysiology, 2025 International Spring Seminar on Electronics Technology (ISSE),Gomboș Andreea; Pena Mădălina; Emilian Ceuca; Peter Udvardy ,Date Added to IEEE Xplore: 19 August 2025
72. Advanced Noise Suppression Techniques in ECG Systems: Combining Right-Leg Drive (RLD) Amplifiers with Digital Signal Processing (DSP), 2025 International Spring Seminar on Electronics Technology (ISSE),Gomboș Andreea; Pena Mădălina; Emilian Ceuca; Peter Udvardy,Date Added to IEEE Xplore: 19 August 2025
73. Bioimpedance Circuit Simulation for Real-Time Hydration Assessment in Athletic Performance Monitoring, 2025 International Spring Seminar on Electronics Technology (ISSE), Pena Madalina; Gombos Andreea; Emilian Ceuca; Peter Udvardy, Date Added to IEEE Xplore: 19 August 2025
- A. -A. Margin, I. -A. Ivanciu and V. Dobrota, "Deep Reservoir Computing using Echo State Networks and Liquid State Machine," 2022 IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom), Sofia, Bulgaria, 2022, pp. 208-213,
74. R. Van Glabbeek, E. H. Teshome, D. Deac, T. Jemal, J. Tiberghien and K. Steenhaut, "A Building Block for Internet of Things Prototyping," IECON 2022 – 48th Annual Conference of the IEEE Industrial Electronics Society, Brussels, Belgium, 2022, pp. 1-6,
75. A.F. Sicoe, R. Botez, I.A. Ivanciu and V. Dobrota, "Fully Automated Testbed of Cisco Virtual Routers in Cloud Based Environments", Proceedings of the 10th International Black Sea Conference on Communications and Networking BlackSeaCom 2022, Sofia, Bulgaria, June 6-9, 2022, pp. 49-53, DOI:10.1109/BlackSeaCom54372.2022.9858288, WOS:000865848800009.
76. Use Case of a Management and Orchestration for Network Functions Virtualization in a VoIP Testbed, Proceedings of the 9th International Black Sea Conference on Communications and Networking BlackSeaCom 2021, "Politehnica" University of Bucharest, Romania, May 24-28, 2021, pp.1-5, DOI:10.1109/BlackSeaCom52164.2021.9527877, WOS:000892556200045.
77. Lacrimioara Grama, Lorena Muscar, Corneliu Rusu- Sound Classification Algorithms for Indoor Human Activities, 16th International Conference on Engineering of Modern Electric Systems (EMES), 978-1-6654-4995-3, Lacrimioara Grama, Lorena Muscar, Corneliu Rusu, IEEE, 2021.
78. Lorena Muscar, Lacrimioara Grama si Corneliu Rusu- Sound Classification by the TIAGo Service Robot for Healthcare Applications, International Symposium on Signals, Circuits and Systems (ISSCS), 978-1-6654-4942-7, Lorena Muscar, Lacrimioara Grama si Corneliu Rusu, IEEE, 2021
79. Toma Telembici, Lacrimioara GRama, Lorena Muscar si Corneliu Rusu- Results on the MFCC extraction for improving audio capabilities of TIAGo service robot, International Conference on Speech Technology and Human-Computer Dialogue (SpeD), 978-1-6654-2786-9, Toma Telembici, Lacrimioara GRama, Lorena Muscar si Corneliu Rusu, IEEE, 2021

80. Lorena Muscar, Lacrimioara Grama, COrneliu Rusu- A Real-time Warning Based on TIAGo's Audio Capabilities, International Symposium on Electronics and Telecommunications (ISETC), 2475-7861, Lorena Muscar, Lacrimioara Grama, COrneliu Rusu, IEEE, 2022.
81. Lorena Muscar, Lacrimioara Grama, Corneliu Rusu- Emotion Recognition Audio Database for Service Robots, International Symposium on Electronics and Telecommunications (ISETC), 2475-7861, Toma Telembici, IEEE, 2022
82. Toma Telembici, Lorena Muscar, Corneliu Rusu- What Influence Does the Type of Extracted Audio Features Have on Emotional States?, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), 979-8-3503-6193-3, IEEE, 2024
83. Lorena Muscar, Toma Telembici, Corneliu Rusu- Deep Learning-Based Sound Classification Algorithms for Enhanced Service Robots Audio Capabilities, 15th International Conference on Communications (COMM), 1938-1883, , IEEE, 2024.
84. Lorena Telembici, Corneliu Rusu, IEEE- Optimizing Audio Recognition for Assistive Robotics with Feature Optimization, Machine Learning and Data Augmentation, 18th International Conference on Engineering of Modern Electric Systems (EMES), 2836-9866, IEEE, 2025
85. Lorena Telembici, Corneliu Rusu - Optimized Audio Recognition for Elderly Assistance: Feature Selection and Classifier Tuning for High-Accuracy Speech Processing, International Symposium on Signals, Circuits and Systems (ISSCS), 2995-0236, IEEE, 2025.
86. Lorena Telembici, Corneliu Rusu- Audio classification for feature-based majority voting optimization and hyperparametric tuning, EUSIPCO, 978-9-46-459362-4, 2025
- A. C. Davidaș, O. Pop, A. Grama, E. M. Ștețco, and T. Petrișor Jr., Testing of the Noise Measurement System for GMR Sensors, In: 2021 IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME). IEEE; Timisoara, Romania, Oct. 2021, pp. 37-40, ISSN: 2642-7036, doi: 10.1109/SIITME53254.2021.9663420, WOS:000786441900010
87. C. Davidaș, O. A. Pop, A. Grama, and T. Petrișor Jr.- PSpice Model for a Graphene Hall Sensor, In: 2022 IEEE 9th Electronics System-Integration Technology Conference (ESTC). IEEE; Sibiu, Romania, Sept. 2022, pp. 1-5, ISBN:978-1-6654-8947-8, doi: 10.1109/ESTC55720.2022.9939518, WOS:001108538800038
88. Davidaș, O. A. Pop, L. Viman, E. M. Ștețco, and T. Petrișor Jr., Noise Measurement System Based on Cross-Correlation Method', In: 2024 47th International Spring Seminar on Electronics Technology (ISSE). IEEE; Prague, Czech Republic, May 2024, pp. 1-5, ISSN: 2161-2536, doi: 10.1109/ISSE61612.2024.10604237, WOS:001283808200091
89. A.Grama, A.Fodor, C.Davidas, E.M.Stetco and O.A.Pop, "Modelling, Simulation and Performance Analysis of K-Thermocouples using PSPICE", 2023 IEEE 29th International Symposium for Design and Technology in Electronic Packaging (SIITME), Craiova, Romania, 2023, pp.106-109, doi:10.1109/SIITME59799.2023.10431205, https://www.researchgate.net/publication/378285556_Modelling_Si
90. T. Telembici, L. Grama, L. Muscar and C. Rusu, "Results on the MFCC extraction for improving audio capabilities of TIAGo service robot," Proceeding of 11th Conference on Speech Technology and Human-Computer Dialogue (SpeD), pp. 57-61, Oct 13-15, 2021, Bucharest, Romania, ISBN: 978-1-6654-2786-9, DOI: 10.1109/SpeD53181.2021.9587416, WOS: 000786794700011; Link: <https://ieeexplore.ieee.org/document/9587416>
91. T. Telembici, L. Muscar and C. Rusu, "What Influence Does the Type of Extracted Audio Features Have on Emotional States?," 2024 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2024, pp. 1-6, doi: 10.1109/AQTR61889.2024.10554243;

92. Modular Telepresence Robot for Distance Medical Education, Paul Țoța; Mircea-F. Vaida, 2021 International Conference on e-Health and Bioengineering (EHB), 18-19 November 2021, DOI: 10.1109/EHB52898.2021.9657633, <https://ieeexplore.ieee.org/document/9657633>
93. Telepresence Robot for Exploring Protected Natural Areas, Paul Țoța; Gelu Ovidiu Tirian; Ligia Chiorean; Mircea-Florin Vaida, 2022 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), 19-21 May 2022, DOI: 10.1109/AQTR55203.2022.9801925, <https://ieeexplore.ieee.org/document/9801925>
94. Telepresence Robot Used in Educational Applications, Paul Țoța; Mircea-Florin Vaida; Gelu Ovidiu Tirian; Sebastian Mariș, 2022 E-Health and Bioengineering Conference (EHB), 17-18 November 2022, DOI: 10.1109/EHB55594.2022.9991637, <https://ieeexplore.ieee.org/document/9991637>
95. Gheorghiu, Medorian, Andrei Ciuparu, Bartul Mimica, Jonathan R. Whitlock, and Raul C. Mureșan. "A Machine Learning Approach to Investigate Fronto-Parietal Neural Ensemble Dynamics During Complex Behavior" In 2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pp. 1-6. IEEE, 2020, <https://ieeexplore.ieee.org/document/9129986>, WOS:000643732600060
96. A. Mocan, I. Ciascai, and C. Alexandru, "Simulations of Measurement Errors for a Pendulum Reader, 2021 44th International Spring Seminar on Electronics Technology (ISSE), WOS:000853459100062

Articole științifice publicate în alte baze de date Internaționale

1. A.Rusu, I. Kovacs, B. Cărbunescu, M. Țopa, A. Buzo and G. Pelz, "On Combining Several Optimization Algorithms for Improving the Efficiency of IC Verification Process", ACTA TECHNICA NAPOCENSIS Electronics and Telecommunications, January 2022
2. M. Neag, R. Oneț, V. Beleca, E. Vladu and A. Battigelli, "A blended, on-campus & at-home, approach to academic projects on electronic circuits," 2025 34th Annual Conference of the European Association for Education in Electrical and Information Engineering (EAEIE), Cluj-Napoca, Romania, 2025, pp. 1-4, doi: 10.1109/EAEIE65428.2025.11136318
3. M. Neag, R. Oneț, V. Beleca, E. Vladu and A. Battigelli, "A blended, on-campus & at-home, approach to academic projects on electronic circuits," 2025 34th Annual Conference of the European Association for Education in Electrical and Information Engineering (EAEIE), Cluj-Napoca, Romania, 2025, pp. 1-4, doi: 10.1109/EAEIE65428.2025.11136318
4. Mihai Ciobancă, Simina Emerich, Mircea Giurgiu, "Automatic Detection of Diabetic Retinopathy Using Image Processing Techniques", 7th International Conference on Advancements of Medicine and Health Care through Technology Conference, MEDITECH 2020, IFMBE Proceedings, vol 88, pp. 132 - 142, Springer, 2022.
5. TEXTURE BASED POLARIMETRIC SYNTHETIC APERTURE RADAR IMAGE CLASSIFICATION USING COVARIANCE MATRICES", Acta Technica Napocensis, 1221-6542, Ioana Ilea, Andreia Valentina Micla-Cecalaca, Mihaela Cislariu, Raul Malutan, George Grosu, Universitatea Tehnica Cluj-Napoca, 2025, https://users.utcluj.ro/~atn/papers/ATN_1_2025_1.pdf
6. Ștefan Oniga Anca Alexan, Alexandru Alexan, Multi-Resident Location Detecting in Smart Home, proceedings of 1st Conference on Information Technology and Data Science (CITDS 2020) / editors István Fazekas, András Hajdu, Tibor Tómacs. -Debrecen : CEUR, 2021. -p. 32-38. -(CEUR Workshop Proceedings, ISSN 1613-0073 ; 2874.)
7. Ștefan Oniga Alexandru Alexan, Anca Alexan, Smartwatch Activity Recognition Using ML.net Framework, Conference on Information Technology and Data Science 2020, Proceedings of 1st Conference on Information Technology and Data Science (CITDS 2020) / editors István Fazekas, András Hajdu, Tibor Tómacs. -Debrecen : CEUR, 2021. -p. 39-45. -(CEUR Workshop Proceedings, ISSN 1613-0073 ; 2874.)
8. Ștefan Oniga Anca Alexan, Alexandru Alexan, Multi-Resident Location Detecting in Smart Home, proceedings of 1st Conference on Information Technology and Data Science (CITDS 2020) / editors István Fazekas, András Hajdu, Tibor Tómacs. -Debrecen : CEUR, 2021. -p. 32-38. -(CEUR Workshop Proceedings, ISSN 1613-0073 ; 2874.)

9. Ștefan Oniga Alexandru Alexan, Anca Alexan, Smartwatch Activity Recognition Using Ml.net Framework, Conference on Information Technology and Data Science 2020, Proceedings of 1st Conference on Information Technology and Data Science (CITDS 2020) / editors István Fazekas, András Hajdu, Tibor Tómacs. -Debrecen : CEUR, 2021. -p. 39-45. -(CEUR Workshop Proceedings, ISSN 1613-0073 ; 2874.)
10. Environmental Parameters Monitoring System. Carpathian Journal of Electronic and Computer Engineering, 14(2), 6–10. ISSN: 1844-9689. Autori: Nistor P., Orha I. Editura: Universitatea Tehnică din Cluj-Napoca. Anul apariției: 2021, <https://ieec.utcluj.ro/cjece/vol/14-2021/2/02-cjece-2021-0002.pdf>
11. Design of a Virtual Temperature Sensor with Data Display in a Web Interface. Carpathian Journal of Electronic and Computer Engineering, 18(1), 74–84. ISSN: 1844-9689. Autori: Nistor P., Orha I. Editura: Universitatea Tehnică din Cluj-Napoca. Anul apariției: 2024. <https://cee.cunbm.utcluj.ro/wp-content/uploads/CJEE20244.pdf>
12. Security Algorithms and Systems for Vehicle Communication and Diagnostics Using Artificial Intelligence, 31st IEEE International Symposium for Design and Technology in Electronics Packaging, Raluca (Radu) Daniliuc si Dorin Petreus, 2025, <https://siitme.ro/2025-edition/siitme-2025-brochure/>
13. F. A. Florin, P. S. Sever and B. Vlad, "The Advantages of using IoT Technology in Monitoring and Dams Management" 2023 IEEE 29th International Symposium for Design and Technology in Electronic Packaging (SIITME), Craiova, Romania, 2023, pp. 123-126, doi: 10.1109/SIITME59799.2023.10430792, Electronic ISBN: 979-8-3503-4411-0,
14. F. A. Florin, P. S. Sever and B. Vlad, "Comparison of Multiple Feedback and Second-Order Bandpass Filters for Vibrating Wire Sensor Signals," 2025 IEEE 31th International Symposium for Design and Technology in Electronic Packaging (SIITME), Brasov, Romania, 2025
15. Adaptive Q-Learning Based Anomaly Detection for Intrusion Detection Systems on Resource-Constrained Microcontrollers, SIITME 2025, Ana-Maria Nica, Dorin Petrus, 2025
16. Comparative Analysis of Active Balancing Types for Lithium-Ion Cells, 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME), Olteanu Mirela, Dorin Pereuș, Anamaria Simionăș, 2024
17. Design and Implementation of a Remote-Variable Aperture for Enhanced Camera Performance, 2025 IEEE 31th International Symposium for Design and Technology in Electronic Packaging (SIITME), Manciu Lucas, Olteanu Mirela, Dorin Pereuș, 2025.
18. Management and Orchestration of Over The Air Software Updates in AUTOSAR Classic, 31st IEEE International Symposium for Design and Technology in Electronics Packaging, Radu Mihai-Robert si Dorin Petreus, 2025.
19. E. Szilagyi, D. Petreus, T. Patarau and N. A. Sarbu, "Energy Management System for an Islanded Microgrid using Stochastic Dynamic Programming under Uncertainty," 2023 IEEE 29th International Symposium for Design and Technology in Electronic Packaging (SIITME), Craiova, Romania, 2023, pp. 110-114, doi: 10.1109/SIITME59799.2023.10430805
20. Vladimir Voicu; Dorin Petreus; Radu Etz, Solar Powered Raspberry Pi for Internet of Things and Wireless Sensor Networks, 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME), DOI: 10.1109/SIITME63973.2024.10814846
21. Zsolt Alfred Polgar, Mihai Stef, Mate-Martón Mezei, Transmission system with adaptive LDPC-Coded OFDM modulation implemented in GNU Radio, International Journal of Science and Research Archive, vol. 13, issue 2, pag. 2080-2088, DOI: <https://doi.org/10.30574/ijrsra.2024.13.2.2405>
22. Intelligent Emergency Braking System for Bicycle, 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME), Pena Catalin Cosmin; Pena Madalina; Gomboș Andreea; Emilian Ceuca, Date Added to IEEE Xplore: 30 December 2024
23. Intelligent System for Investigating the Effects of the Environment on the Human Brain, 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME),

- Gombos Andreea; Pena Mădălina; Emilian Ceuca; Claudiu Steau, Date Added to IEEE Xplore: 30 December 2024
24. Non-Invasive Assessment of Hydration Status Using Bioelectrical Impedance Analysis, 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME), Pena Madalina; Gomboș Andreea; Emilian Ceuca, Date Added to IEEE Xplore: 30 December 2024
 25. Measurement and Analysis of Electroencephalogram (EEG) Signals Using Pre-Amplification and Filtering Techniques, 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME), Gomboș Andreea; Pena Mădălina; Emilian Ceuca, Date Added to IEEE Xplore: 30 December 2024
 26. Non-Invasive Assessment of Hydration Status Using Bioelectrical Impedance Analysis, 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME), Pena Madalina; Gomboș Andreea; Emilian Ceuca, Date Added to IEEE Xplore: 30 December 2024
 27. Intelligent System for Investigating the Effects of the Environment on the Human Brain, 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME), Gombos Andreea; Pena Mădălina; Emilian Ceuca; Claudiu Steau, Date Added to IEEE Xplore: 30 December 2024
 28. Intelligent Emergency Braking System for Bicycle, 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME), Pena Catalin Cosmin; Pena Madalina; Gomboș Andreea; Emilian Ceuca, Date Added to IEEE Xplore: 30 December 2024
 29. Measurement and Analysis of Electroencephalogram (EEG) Signals Using Pre-Amplification and Filtering Techniques, 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME), Gomboș Andreea; Pena Mădălina; Emilian Ceuca, Date Added to IEEE Xplore: 30 December 2024
 30. D.A. Margin, D.A. Moldovan, I.A. Ivanciu, J. Domingo-Pascual and V. Dobrota, "Security Optimization of IoT Platforms Based on Named Data Networking", ACTA TECHNICA NAPOCENSIS, Electronics and Telecommunications, ISSN 1221-6542, Vol.61, No.1, 2021, pp. 15-20.
 31. D.A. Margin and V. Dobrota, "Data Prediction Algorithms in Real-Time Using Internet of Things and Named-Data Networks", Proceedings of the 16th International Symposium on Electronics and Telecommunications ISETC 2024, Timisoara, Romania, November 7-8, 2024, pp. 1-4, D
 32. D.A. Margin and V. Dobrota, "Overview of Echo State Networks using Different Reservoirs and Activation Functions", Proceedings of the 19th RoEduNet Conference: Networking in Education and Research ROEDUNET 2021, "Alexandru Ioan Cuza" University of Iasi, Romania, November 4-6, 2021,
 33. R. Botez, G. Lazar, I.A. Ivanciu, V. Dobrota, "Leveraging SDN/ SD-WAN in Virtual and IoT Deployments through Automation", ACTA TECHNICA NAPOCENSIS, Electronics and Telecommunications, ISSN 1221-6542, Vol.62, No.2, 2022, pp.1-6.
 34. D. Deac, T. Vandervelden, A. Declerck, A. Braeken, V. Dobrota and K. Steenhaut, "Evaluation of Route Invalidation Mechanisms and Network Recovery in Wireless Sensor and Actuator Networks", 2025 IEEE 36th Annual International Symposium on Personal, Indoor and Mobile Radio Communications PIMRC 2025, Istanbul, Turkiye, September 1-4, 2025 (to be published).
 35. R. Botez, C.M. Petruți, I.A. Ivanciu and V. Dobrota, "Kubernetes-Based Load Balancer as a Service for Private Cloud Infrastructures", 14th International Conference on Communications COMM 2022, Military Technical Academy "Ferdinand I", "Politehnica" University of Bucharest, "Electronica 2000" Foundation and IEEE Romania Section, Bucharest, Romania, June 16-18, 2022, pp. 1-6, DOI:10.1109/COMM54429.2022.9817323.
 36. O.D. Selin, A.T. Sferle, T.M. Blaga, D. Zinca, and V. Dobrota, "WebRTC and PJSIP in Asterisk: A Cloud-Based Approach", ACTA TECHNICA NAPOCENSIS, Electronics and Telecommunications", ISSN 1221-6542, Vol.64, No.1, 2024, pp.26-35.
 37. A.T. Sferle, D. Zinca, I.A. Ivanciu and V. Dobrota, "A Native Architecture Model to Enable FPGAs in Cloud Environments", 33rd International Conference on Software, Telecommunications, and

- Computer Networks (SoftCOM 2025), University of Split, FESB, and the Croatian Communications and Information Society (CCIS), Split, Croatia, September 18-20, 2025, pp.1-6.
38. A.T. Sferle, T.M. Blaga, D. Zinca and V. Dobrota, "Simplified Design of an FPGA-Accelerated Connectionless Network Stack", 2025 24th RoEduNet Conference: Networking in Education and Research (RoEduNet), Chisinau, Republic of Moldova, September 17-20, 2025, pp. 1-6, Electronic ISBN:979-8-3315-5713-3, Print on Demand(PoD) ISBN:979-8-3315-5714-0, doi: 10.1109/RoEduNet68395.2025.11207605.
39. "R. Botez, A.T. Sferle, I.A. Ivanciu and V. Dobrota, "Work-in-Progress: KubeUT: A Cloud-Agnostic Kubernetes Management Platform", Proceedings of the 11th International Black Sea Conference on Communications and Networking BlackSeaCom 2023, Istanbul, Turkiye, 2023, pp. 384-389, doi: 10.1109/BlackSeaCom58138.2023.10299745.
40. Kone, A.D. Kora, R. Botez, I.A. Ivanciu, and V. Dobrota, "Use Case of a Management and Orchestration for Network Functions Virtualization in a VoIP Testbed", Proceedings of the 9th International Black Sea Conference on Communications and Networking BlackSeaCom 2021, "Politehnica" University of Bucharest, Romania, May 24-28, 2021, pp.1-5, DOI:10.1109/BlackSeaCom52164.2021.9527877, WOS:000892556200045.
41. C.V. Dolcescu, R. Botez, D. Zinca and V. Dobrota, "Decision Trees-Based Algorithm for Intelligent Allocation of Processes in Cloud", ACTA TECHNICA NAPOCENSIS, Electronics and Telecommunications, ISSN 1221-6542, Vol.65, No.1, 2025, pp.11-19.
42. R. Botez, G. Lazar, I.A. Ivanciu, V. Dobrota, "Leveraging SDN/ SD-WAN in Virtual and IoT Deployments through Automation", ACTA TECHNICA NAPOCENSIS, Electronics and Telecommunications, ISSN 1221-6542, Vol.62, No.2, 2022, pp.1-6.
43. A. Bulzan, R. Botez, and V. Dobrota, "Permissioned Blockchain-as-Service: Architecting Secure and Efficient Private Blockchain Networks", Proceedings of the 16th International Symposium on Electronics and Telecommunications ISETC 2024, Timisoara, Romania, November 7-8, 2024, pp. 1-4, ISSN: 2475-787X, 10.1109/ISETC63109.2024.10797365.
44. R. Botez, A.G. Pasca and V. Dobrota, "Kubernetes-Based Network Functions Orchestration for 5G Core Networks with Open Source MANO", Proceedings of the 15th International Symposium on Electronics and Telecommunications ISETC 2022, Timisoara, Romania, November 10-11, 2022, pp. 1-4, DOI: 10.1109/ISETC56213.2022.10010246.
45. C.M. Iurian, R. Botez, I.A. Ivanciu and V. Dobrota, "Video Streaming Evaluation Using Priority Queuing in P4 Programmable Networks", Proceedings of the 20th RoEduNet Conference: Networking in Education and Research ROEDUNET 2022, Sovata, Romania, September 15-16, 2022, pp. 1-5, DOI: 10.1109/RoEduNet57163.2022.9921096.
46. R. Botez, C.M. Petruti, I.A. Ivanciu and V. Dobrota, "Kubernetes-Based Load Balancer as a Service for Private Cloud Infrastructures", 14th International Conference on Communications COMM 2022, Military Technical Academy "Ferdinand I", "Politehnica" University of Bucharest, "Electronica 2000" Foundation and IEEE Romania Section, Bucharest, Romania, June 16-18, 2022, pp. 1-6, DOI:10.1109/COMM54429.2022.9817323.
47. I.A. Ivanciu, R. Botez, C.M. Iurian, A.V. Dumitrescu, T.M. Blaga and V. Dobrota, "An SD-WAN Approach for EUt+ Network", Proceedings of the 19th RoEduNet Conference: Networking in Education and Research ROEDUNET 2021, "Alexandru Ioan Cuza" University of Iasi, Romania, November 4-6, 2021, pp.1-6, DOI:10.1109/RoEduNet54112.2021.9638308.
48. G.A. Andreica, I.A. Ivanciu, D. Zinca and V. Dobrota, "Integration of the Suricata Intrusion Detection System and of the Wazuh Security Information and Event Management for Real-Time Denial-of-Service and Data Tampering Detection and Alerting", ACTA TECHNICA NAPOCENSIS, Electronics and Telecommunications, ISSN 1221-6542, Vol.64, No.2, 2024, pp. 1-8.
49. G.R. Andreica, C. Stangu, I.A. Ivanciu, D. Zinca, and V. Dobrota, "Secure Access with Teltonika GPS Tracking Devices for Intelligent Transportation Systems", ACTA TECHNICA NAPOCENSIS, Electronics and Telecommunications, ISSN 1221-6542, Vol.63, No.1, 2023, pp. 12-17.

50. Claudia-Georgiana Cordoș, Laura-Ioana Mihăilă, Paul Faragó and Sorin Hintea, A Matlab Implementation of a Biometric Identification System Based on Photoplethysmograms, International Conference on Telecommunications and Signal Processing (TSP), 2768-3311, IEEE Xplore, 2023
51. Laura-Ioana Mihăilă, Paul Faragó and Sorin Hintea, Delta Wave Detection Method of Wolff-Parkinson-White Syndrome Based on Electrocardiogram, International Conference on Telecommunications and Signal Processing (TSP), 2768-3311, IEEE Xplore, 2024
52. Laura-Ioana Mihăilă, Paul Faragó and Sorin Hintea, ECG-Based Multi-Class Arrhythmia Classification Using Continuous Wavelet Transform and 2D-CNN Models, 13-th Edition, International Conference on e-Health and Bioengineering (EHB), Springer Nature, 2025
53. Laura-Ioana Mihăilă, Claudia-Georgiana Barbura, Paul Farago, Sorin Hintea, Botond Sandor Kirei, Albert Fazakas - FPGA-Enabled Intelligent ECG Classification: A Review of ML/DL Models, 2025 IEEE 21st International Conference on Intelligent Computer Communication and Processing, Cluj-Napoca 2025.
54. Paul Farago, Laura-Ioana Mihăilă, Claudia-Georgiana Barbura, Sorin Hintea, Botond Sandor Kirei, Albert Fazakas- Feature-Based AI/ML for ECG Artifact Detection: A Comparative Study of Supervised Classifiers, SYNASC 2025 27th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timișoara 2025.
55. Cristian Ignat, Paul Faragó, Mihaela Cîrlugea, Sorin Hintea-A Dual-BRAM Solution for BTSx Instructions on FPGA Processors, 2024, IFMBE Proceedings 8th International Conference on Advancements of Medicine and Health Care Through Technology, p. 243-253, 10.1007/978-3-031-51120-2_26
56. Cordoș, C. G., Mihăilă, L. I., Faragó, P., and Hintea, S- A Matlab Implementation of a Biometric Identification System Based on Photoplethysmograms, Proceedings of the 2023 46th International Conference on Telecommunications and Signal Processing (TSP), 2768-3311, IEEE Explore, 2023
57. Cordoș, C. G., Faragó, P., and Hintea, S- Biometric Recognition Using Phonocardiograms and Convolutional Neural Networks, Proceedings of the 2024 47th International Conference on Telecommunications and Signal Processing (TSP), 2768-3311, IEEE Explore, 2024
58. Barbura, C. G., Faragó, P., and Hintea, S- Secure and Efficient AES-128 Encryption of ECG Signals on FPGA for Telemedicine Applications, International Conference on e-Health and Bioengineering, Barbura, Springer Nature, 2025 (în curs de publicare)
59. Capota, B.C., Barbura, C. G., and Hintea, S.- Diagnostic Techniques Using Phonocardiogram and Based on Artificial Neural Network (ANN), International Conference on e-Health and Bioengineering, Springer Nature, 2025 (în curs de publicare)
60. Faragó, P., Mihăilă, L.I., Barbura, C.G., Botond S.K., Fazakas, A., and Hintea, S.- Feature-Based AI/ML for ECG Artifact Detection: A Comparative Study of Supervised Classifiers, International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timișoara, 2025
61. Mihăilă, L.I., Barbura, C.G., Faragó, P., Botond S.K., Fazakas, A., and Hintea, S- FPGA-Enabled Intelligent ECG Classification: A Review of ML/DL Models, International Conference on Intelligent Computer Communication and Processing, Cluj-Napoca, 2025
62. Alexandru ROMANIUC, Vlad-Cosmin VASILE, Monica-Elena BORDA-Low-cost GNSS Monitoring Station for Raw Data Measurements, Publicatia: International Symposium on Electronics and Telecommunications (ISETC), ISBN: 978-1-6654-5150-5,, Link: <https://doi.org/10.1109/ISETC56213.2022.10009046>
63. "Alexandru ROMANIUC, Vlad-Cosmin VASILE, Monica-Elena BORDA- Experimental Determination of the Area Coverage of a TETRA Base Station in a Dense Urban Area, Publicatia: International Symposium on Electronics and Telecommunications (ISETC) 2022, ISBN: 978-1-6654-5150-5, Link: <https://doi.org/10.1109/ISETC56213.2022.10009957>"
64. Alexandru ROMANIUC, Vlad-Cosmin VASILE, Monica-Elena BORDA, Alexandru BĂNICĂ- NTP Spoofing Attack Detection on Time Servers With GNSS Sensors Based on Long Short-Term Memory Algorithm, Publicatia: The 15th International Conference on Communications (COMM), ISBN: 979-8-3503-5595-6, Link: <https://doi.org/10.1109/COMM62355.2024.10741488>

65. Alexandru ROMANIUC, Vlad-Cosmin VASILE, Monica-Elena BORDA, Alexandru BĂNICĂ- Results on the Impact of GNSS Spoofing Attack on GNSS Sensors Using RINEX Data, the 15th International Conference on Communications (COMM), ISBN: 979-8-3503-5595-6, Autorii: , <https://doi.org/10.1109/COMM62355.2024.10741479>
66. Alexandru ROMANIUC, Vlad-Cosmin VASILE, Monica-Elena BORDA- A Study Regarding the Impact of Navigation Data Manipulation on Unmanned Aerial Vehicle GNSS Sensors, International conference The Knowledge-Based Organization, eISSN: 2451-3113, Autorii: , Anul aparitiei: 2023, Link: <https://sciendo.com/article/10.2478/kbo-2023-0077>
67. Alexandru ROMANIUC, Vlad-Cosmin VASILE, Monica-Elena BORDA- Study of Methods and Techniques for Manipulating the Time Synchronization Component of NTP Servers in Computer Networks, International conference The Knowledge-Based Organization, eISSN: 2451-3113, Autorii: , Anul aparitiei: 2023, Link: <https://sciendo.com/article/10.2478/kbo-2023-0078>
68. Dorin ALEXANDRESCU, Alexandru BĂNICĂ, Alexandru-Gabriel ROMANIUC- Challenges for the Command and Control Systems in the Information Age, Publicatia: International conference The Knowledge-Based Organization, eISSN: 2451-3113 2023, Link: <https://sciendo.com/article/10.2478/kbo-2023-0001>
69. Sârbu, Annamaria & Romaniuc, Alexandru-Gabriel & Gavrilas, Anca- Improving Sentiment Analysis With Neural Networks, Publicatia: International conference The Knowledge-Based Organization, eISSN: 2451-3113, 2023, Link: <https://sciendo.com/article/10.2478/kbo-2024-0095>

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