

LISTA DE LUCRĂRI ȘTIINȚIFICE PUBLICATE

Ș.I. dr. ing. ȚIPLEA Mihaela

I. CĂRȚI

1. **M. Miron**. Contribuții privind diagnoza proceselor de tratare a apelor uzate folosind rețele neuronale, Galați, Editura Fundației Universitare, 2019. ISBN 978-973-627-616-3.
2. **M. Miron**, A. Cocu, Inteligența Artificială: Rețele Neuronale, Aplicații Python. Galați, Editura Fundației Universitare, 2021. ISBN 978-973-627-648-4.

II. LUCRĂRI ȘTIINȚIFICE – ISI

1. **Mihaela Miron**, Laurentiu Frangu, George Ifrim, Sergiu Caraman, “Modeling of a Wastewater Treatment Process Using Neural Networks”, 20th International Conference on System Theory, Control and Computing - ICSTCC 2016, October 13-15 2016, Sinaia, Romania, pp. 210 – 215, *WOS:000391609900037*.
2. **Mihaela Miron**, Laurențiu Frangu, Sergiu Caraman, „Actuator fault detection using extended Kalman filter for a wastewater treatment process”, 21st International Conference on System Theory, Control and Computing, October 19 - 21, 2017, Sinaia, Romania, pp. 583-588, *WOS:000427419900096*.
3. **Mihaela Miron**, Laurentiu Frangu, Sergiu Caraman, "Fault detection method for a wastewater treatment process based on a neural model," *2017 5th International Symposium on Electrical and Electronics Engineering (ISEEE)*, October 20 – 22, 2017, Galati, Romania, pp. 1-6, *WOS:000428234400060*.
4. Laurentiu Baicu, Sergiu Caraman, Laurentiu Frangu, **Mihaela Miron**, “Measurement of the biomass concentration from a bioprocess by image processing techniques”, The 5th International Symposium On Electrical And Electronics Engineering (ISEEE), October 20 – 22, 2017, Galati Romania, pp. 1-6, *WOS:000428234400057*.
5. **Mihaela Miron**, Laurențiu Frangu, Sergiu Caraman, “Artificial neural network approach for fault recognition in a wastewater treatment process”, 22nd International Conference on System Theory, Control and Computing, October 10 - 12, 2018, Sinaia, Romania, pp. 634-639, *WOS:000465109800104*.
6. Laurențiu Luca, Marian Barbu, George Ifrim, Emil Ceanga, **Mihaela Miron**, Sergiu Caraman, “Fuzzy control of a microalgae process in photobioreactors”, 22nd International Conference on System Theory, Control and Computing, October 10 - 12, 2018, Sinaia, Romania, pp. 480-485, *WOS:000465109800079*.
7. Alina Pricopie, Laurențiu Frangu, **Mihaela Miron**, Sergiu Caraman, „An improved degradation model for preventive maintenance”, 24th International Conference on System Theory, Control and Computing, ICSTCC 2020 – Proceedings, 8 -10 Oct. 2020, Sinaia, Romania, Pages 483-488, *WOS:000646582900080*.



8. **Miron, M.**; Moldovanu, S.; Ștefănescu, B.I.; Culea, M.; Pavel, S.M.; Culea-Florescu, A.L. A New Approach in Detectability of Microcalcifications in the Placenta during Pregnancy Using Textural Features and K-Nearest Neighbors Algorithm. *J. Imaging* 2022, 8, 81, WOS:000774886200001.
9. **M. Miron**, S. Moldovanu and A. L. Culea-Florescu, "A Multi-Layer Feed Forward Neural Network for Breast Cancer Diagnosis from Ultrasound Images," 2022 26th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2022, pp. 421-425, WOS:000889980600071.
10. **M. Mihaela**, A. L. Culea-Florescu and S. Moldovanu, "A Convolutional Neural Network for skin lesion classification in Dermoscopic Images using discrete wavelet transform," 2023 European Control Conference (ECC), Bucharest, Romania, 2023, pp. 1-5, WOS:001035589000249.
11. Moldovanu, S., **Miron, M.**, Rusu, CG. et al. Refining skin lesions classification performance using geometric features of superpixels. *Sci Rep* 13, 11463 (2023), WOS:001055239000045.
12. Ghinea, L.M.; **Miron, M.**; Barbu, M. Semi-Supervised Anomaly Detection of Dissolved Oxygen Sensor in Wastewater Treatment Plants. *Sensors* 2023, 23, 8022, WOS:001082179900001.
13. Totolici, G.; **Miron, M.**; Culea-Florescu, A.-L. Automatic Segmentation and Statistical Analysis of the Foveal Avascular Zone. *Technologies* 2024, 12, 235, WOS:001383697100001.

III. LUCRĂRI ȘTIINȚIFICE – BDI

1. **M. Miron**, A. Culea-Florescu and S. Moldovanu, "Diabetic Retinopathy Image Classification Using Machine Learning and Local Binary Patterns Features", 2023 8th International Symposium on Electrical and Electronics Engineering (ISEEE), Galati, Romania, 2023, pp. 136-139, doi: 10.1109/ISEEE58596.2023.10310398, ISBN 979-835030167-0.
2. S. Moldovanu, **M. Miron** and A. Culea-Florescu, "Exploiting hybrid features extracted from color spaces of dermoscopic images," 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA), Sinaia, Romania, 2023, pp. 1-6, doi: 10.1109/ETFA54631.2023.10275594, ISBN:979-8-3503-3992-5.
3. L. M. Ghinea, **M. Miron** and H. Ratnaweera, "A Deep Learning Approach For Faults Recognition of Dissolved Oxygen Sensor in Wastewater Treatment Plants," 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA), Sinaia, Romania, 2023, pp. 1-5, doi: 10.1109/ETFA54631.2023.10275716, ISBN:979-8-3503-3992-5.
4. **M. Miron**, A. -L. Culea-Florescu and B. I. Ștefănescu, "Automatic Segmentation of Cervical Cancer Vascular Anatomy from 3D Power Doppler Ultrasound Images," 2024 15th International Conference on Communications (COMM), Bucharest, Romania, 2024, pp. 1-7, doi: 10.1109/COMM62355.2024.10741504, ISBN:979-8-3503-5595-6.
5. L. M. Ghinea, **M. Miron** and M. Barbu, "Enhancing Wastewater Treatment Sensor Fault Detection through Deep Learning," 2024 28th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2024, pp. 95-100, doi: 10.1109/ICSTCC62912.2024.10744689, ISBN:979-8-3503-6429-3.



6. **M. Miron**, A. -L. Culea-Florescu and B. Ioan Ștefănescu, "Cervical Cancer Vascular Segmentation in 3D Power Doppler Ultrasound Using Advanced Deep Learning Models," *2024 IEEE 20th International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, Romania, 2024, pp. 1-7, doi: 10.1109/ICCP63557.2024.10793044, ISBN:979-8-3315-3997-9.

IV. ALTE LUCRĂRI ȘTIINȚIFICE

1. **Mihaela Miron**, Anisia Culea-Florescu, Mihai Culea, "Fault Detection using NLMS Adaptive Filtering for a Wastewater Treatment Process", The Eleventh International Conference on Emerging Networks and Systems Intelligence (EMERGING 2019), ISBN: 978-1-61208-740-5, September 22, 2019 to September 26, 2019 - Porto, Portugal, pp.40-45, https://personales.upv.es/thinkmind/dl/conferences/emerging/emerging_2019/emerging_2019_2_30_58004.pdf
2. Moldovanu, S., Anghelache Nastase, I.-N., Miron, M. and Moraru, L. (2022) "Performance comparison of two non-parametric classifiers for classification using geometric features", *Analele Universității "Dunărea de Jos" din Galați. Fascicula II, Matematică, fizică, mecanică teoretică / Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 45(2), pp. 59-62. doi: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2022.2.04>.

