

## Lista completă a lucrărilor științifice

Teza de doctorat:

- Liliana – Maria Ghinea, “Advanced control of complex processes (Conducerea automată avansată a proceselor complexe)”, conducători doctorat: prof. univ. dr. ing. Marian Barbu, prof. univ. dr. Ion Necoară, Școala Doctorală de Științe Fundamentale și Inginerești, Universitatea “Dunărea de Jos” Galați.

Articole în reviste cotate ISI:

- Liliana Maria Ghinea, Daniela Lupu, Marian Barbu, Ion Necoară, "Fast Coordinate Descent Augmented Lagrangian Methods for linearized MPC", Journal of Control Engineering and Applied Informatics, Vol. 25 (1), pp. 49-58, 2023, (Factor de impact calculat de către ISI pentru anul 2023: 0.9)

Link:

<http://ceai.srait.ro/index.php?journal=ceai&page=article&op=view&path%5B%5D=8332&path%5B%5D=1677>

- Liliana Maria Ghinea, Mihaela Miron, Marian Barbu, "Semi-Supervised Anomaly Detection of Dissolved Oxygen Sensor in Wastewater Treatment Plants", Sensors, Vol. 23 (19), 8022, 2023, (Factor de impact calculat de către ISI pentru anul 2023: 3.9),

<https://doi.org/10.3390/s23198022>

Link: <https://www.mdpi.com/1424-8220/23/19/8022>

Articole prezentate în conferințe internaționale indexate:

- Liliana Maria Ghinea, Ion Necoară, Marian Barbu, "Random coordinate descent methods for non-separable composite optimization", 2021 European Control Conference (ECC), June 29 - July 2 2021, Virtual Conference, pp. 2225-2230, IEEE,

[10.23919/ECC54610.2021.9655067](https://doi.org/10.23919/ECC54610.2021.9655067)

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- Daniela Lupu, Ion Necoară, Tudor C Ionescu, Liliana Maria Ghinea, Joseph Garrett, Tor A Johansen, "Dimensionality reduction of hyperspectral images using an ICA-based stochastic second-order optimization algorithm", 2023 European Control Conference (ECC), June 13 - June 16 2023, Bucharest, Romania, pp. 1-6, IEEE,

[10.23919/ECC57647.2023.10178317](https://doi.org/10.23919/ECC57647.2023.10178317)

Link: <https://ieeexplore.ieee.org/document/10178317>

- Liliana Maria Ghinea, Daniela Lupu, Marian Barbu, Ion Necoară, "Control of a wastewater treatment process using linear and nonlinear model predictive control", 28th

International Conference on Emerging Technologies and Factory Automation (ETFA), September 12 - September 15 2023, Sinaia, Romania, pp. 1-6, IEEE, [10.1109/ETFA54631.2023.10275465](https://doi.org/10.1109/ETFA54631.2023.10275465)

Link: <https://ieeexplore.ieee.org/abstract/document/10275465>

- Liliana Maria Ghinea, Mihaela Miron, Harsha Ratnaweera, "A Deep Learning Approach For Faults Recognition of Dissolved Oxygen Sensor in Wastewater Treatment Plants", 28th International Conference on Emerging Technologies and Factory Automation (ETFA), September 12 - September 15 2023, Sinaia, Romania, pp. 1-5, IEEE, [10.1109/ETFA54631.2023.10275716](https://doi.org/10.1109/ETFA54631.2023.10275716)  
Link: <https://ieeexplore.ieee.org/abstract/document/10275716>

Prezentări poster sau de abstract extins în conferințe:

- Liliana Maria Ghinea, Ion Necoara, Marian Barbu, "Stochastic Subspace Higher Order Methods", Scientific Conference of Doctoral Schools, June 18 - June 19 2020, Galați, Romania, prezentare poster.
- Liliana Maria Ghinea, Ion Necoara, Marian Barbu, "Wastewater Treatment Systems in ACADO Toolkit", Scientific Conference of Doctoral Schools, June 10 - June 11 2021, Galați, Romania, prezentare poster.
- Liliana Maria Ghinea, Ion Necoara, Marian Barbu, Daniela Lupu, "Optimal Control of the Wastewater Treatment Process in ACADO Toolkit", 2023 European Control Conference (ECC), June 13 - June 16 2023, Bucharest, Romania, abstract extins.

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