

Lucrări publicate în 2021 în reviste cu factor de impact

- **Filipescu, A.; Ionescu, D.; Filipescu, A.; Mincă, E.; Simion, G.** - *Multifunctional Technology of Flexible Manufacturing on a Mechatronics Line with IRM and CAS, Ready for Industry 4.0.* - MDPI, Processes 2021, Volume9, 864. <https://doi.org/10.3390/pr9050864>, 2020, ranked Q2 (Engineering&Chemical), **Impact factor: 2,847.**
- **Condriachi, Larisa, Vilanova, Ramon, Meneses, Montse, Barbu, Marian** - *Anaerobic Digestion Process Control Using a Data-Driven Internal Model Control Method* - ENERGIES, Volume 14, Issue 20, Article Number 6746, DOI 10.3390/en14206746, **Impact factor: 3,004;**
- **Mînză V, Ifrim G, Aramă I.** - *Control of Microalgae Growth in Artificially Lighted Photobioreactors Using Metaheuristic-Based Predictions* - Sensors. 2021; 21(23): 8065. DOI10.3390/s21238065; **Impact factor: 3.576;**
- **Oprea SV, Bâra A, Ifrim GA.** - *Optimizing the Electricity Consumption with a High Degree of Flexibility Using a Dynamic Tariff and Stackelberg Game* - Journal of Optimization Theory and Applications. 2021; 190(1):151-182; **Impact factor: 2,249**

Lucrări publicate în 2021 în proceedings indexate ISI si BDI

1. **Ionescu, D., Cernega, D., Solea, R., Filipescu, A., Simion, G., Filipescu, A., Jr.,** - *CAS and IRM Integrated into a Multifunctional Flexible Manufacturing Technology on an A/D/RML* - Proceedings of the 25th International Conference on System Theory, Control and Computing, Iasi, Romania, October 20-23, 2021, 978-1-6654-1496-8/21/\$31.00 ©2021 IEEE, pp: 541-546.;
2. **George Ifrim, Marian Barbu, Georgiana Horincar, Mariana Titica** - *Data-Driven Multivariable Control of a Microalgae Growth Process* - 2021 25th International Conference on System Theory, Control and Computing (ICSTCC);
3. **Larisa Condriachi, Ramon Vilanova, Marian Barbu** - *Data-Driven Internal Model Control of an Anaerobic Digestion Process* - 2021 25th International Conference on System Theory, Control and Computing (ICSTCC);
4. **Iulian Vasiliev, Laurențiu Luca, Marian Barbu, Alina Pricopie, Sergiu Caraman** - *Mathematical Model of a Collecting and Wastewater Treatment Integrated System* - 2021 25th International Conference on System Theory, Control and Computing (ICSTCC);
5. **Irina Luca, Larisa Condriachi, Laurențiu Luca, Ramon Vilanova, Marian Barbu** - *Testing Platform for Real-Time Controllers Based on Hardware In the Loop Simulation* - 2021 26th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA);
6. **Liliana Maria Ghinea, Ion Necoară, Marian Barbu** - *Random coordinate descent methods for non-separable composite optimization* - 2021 European Control Conference (ECC);
7. **Mînză V, Ifrim GA.** - *Optimal Control of Microalgae Growth in Artificially Lighted Photobioreactors: Case study: closed-loop solution for a bilocal optimization problem* - 7th International Symposium on Electrical and Electronics Engineering, ISEEE 2021, Oct. 28 – 30, Galati, Romania, IEEEExplore Digital Library, 2021: 1-7;
8. **Horincar G, Mogodan M, Simionov I, Ifrim GA.** - *Batch cultivation of Desmodesmus pseudocommunis in a flat-plate photobioreactor* - The 10th International Symposium Euro-Aliment 2021, Oct. 7 – 8, Galati, Romania