

Lista publicațiilor rezultate în urma cercetărilor științifice

A. Lista publicațiilor în domeniul tezei

1. **Stăncioi, C.-M.**; Ștefan, I.A.; Briciu, V.; Mureșan, V.; Clitan, I.; Abrudean, M.; Ungureșan, M.-L.; Miron, R.; Stativă, E.; Nanu, M.; et al. Neural Network-Based Predictive Control of COVID-19 Transmission Dynamics to Support Institutional Decision-Making. *Mathematics* 2025, 13, 2528. <https://doi.org/10.3390/math13152528>. - **WOS Q1**
2. **Stăncioi, C.-M.**; Ștefan, I.A.; Briciu, V.; Mureșan, V.; Clitan, I.; Abrudean, M.; Ungureșan, M.-L.; Miron, R.; Stativă, E.; Nanu, M.; et al. Solution for the Mathematical Modeling and Future Prediction of the COVID-19 Pandemic Dynamics. *Appl. Sci.* 2023, 13, 7971. <https://doi.org/10.3390/app13137971>. - **WOS Q2**
3. **Stăncioi, C.-M.**; Ștefan, I.A.; Briciu, V.; Mureșan, V.; Clitan, I.; Abrudean, M.; Ungureșan, M.-L.; Miron, R.; Stativă, E.; Cordoș R. C.; et al. A Comparative Study on COVID-19 Dynamics: Mathematical Modeling, Predictions and Resource Allocation Strategies in Romania, Italy, and Switzerland. *Bioengineering* 2025 - **WOS Q2**
4. **Cristina-Maria Stancioi**, Vlad Muresan, Iulia Clitan, Mihail Abrudean, Mihaela-Ligia Unguresan, Predicting the COVID-19 Pandemic Spread: An Analysis Using ARX and ARMAX Models, Proceedings of the 9th World Congress on Electrical Engineering and Computer Systems and Sciences (EECSS'23), Brunel University, London, United Kingdom – August 03-05, 2023, Paper No. ICBES 155, DOI: 10.11159/icbes23.155. - **SCOPUS**
5. **Cristina-Maria Stancioi**, Vlad Muresan, Mihail Abrudean, Mihaela-Ligia Unguresan, Comparative Analysis of Continuous Transfer Function Modeling and ARMAX Models for COVID-19 Spread Prediction, Proceedings of the 10th World Congress on Electrical Engineering and Computer Systems and Sciences (EECSS'24), Barcelona, Spain – August 19 - 21, 2024, Paper No. ICBES 173, DOI: 10.11159/icbes24.173. - **SCOPUS**
6. **Stancioi, Cristina-Maria** & Muresan, Vlad & Abrudean, Mihail & Munteanu, Mihai & Sita, Ioan-Valentin. (2024). Continuous Transfer Function Modeling for Predicting the COVID-19 Spread. *IOP Conference Series: Materials Science and Engineering*. 1320. 012017. 10.1088/1757-899X/1320/1/012017. - **SCOPUS**
7. **Stancioi, Cristina-Maria** & Muresan, Vlad & Abrudean, Mihail & Munteanu, Mihai & Sita, Ioan-Valentin. (2024). Dynamic Forecasting of COVID-19 Spread Using ARMAX Models. *IOP Conference Series: Materials Science and Engineering*. 1320. 012018. 10.1088/1757-899X/1320/1/012018. - **SCOPUS**
8. **Stancioi, CM.**, Muresan, V., Abrudean, M., Roman, M.N. (2025). Predictive Mathematical Modeling of COVID-19 Pandemic: A Comparative Analysis of ARX and ARMAX Approaches. In: Vlad, S., Roman, N.M. (eds) 9th International Conference on Advancements of Medicine and Health Care Through Technology. *MEDITECH 2024. IFMBE Proceedings*, vol 130. Springer, Cham. https://doi.org/10.1007/978-3-031-95671-3_20. - **SPRINGER**

B. Lista publicațiilor în domeniul Ingineria Sistemelor

9. **Stancioi, CM.**, Clitan, I., Roman, M.N., Abrudean, M., Muresan, V. (2024). Comparison Between Different Methods of Segmentation in Dental Image Processing. In: Vlad, S., Roman, N.M. (eds) 8th International Conference on Advancements of Medicine and Health Care Through Technology. MEDITECH 2022. IFMBE Proceedings, vol 102. Springer, Cham. https://doi.org/10.1007/978-3-031-51120-2_8. - **SPRINGER**
10. **C. -M. Stancioi**, I. Clitan, A. Mihai, V. Muresan and M. -L. Unguresan, "Implementing a System for Diagnosing Pulmonary Fibrosis using Hough Algorithm," 2021 IEEE 15th International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, Romania, 2021, pp. 000275-000280, doi: 10.1109/SACI51354.2021.9465554. - **WOS**
11. **C. -M. Stancioi** et al., "Implementing a System for Diagnosing Lung Cancer based on Active Contour Algorithms," 2021 16th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, Romania, 2021, pp. 1-4, doi: 10.1109/EMES52337.2021.9484112. - **WOS**
12. **C. -M. Stancioi**, R. A. Munteanu, V. Muresan, I. Clitan and O. Bunta, "System for Detecting the Position of a Tooth in Relation to a Fixed Reference," 2021 International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, 2021, pp. 1-4, doi: 10.1109/EHB52898.2021.9657750. - **WOS**
13. **C. -M. Stancioi** et al., "Developing an application based on the interaction between humans and the Pepper robot," 2021 16th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, Romania, 2021, pp. 1-4, doi: 10.1109/EMES52337.2021.9484141. - **WOS**
14. **Cristina-Maria Stancioi**, Vlad Muresan, Daniel Moga, Mihai Abrudean, Dorin Petreus, Ioan-Valentin Sita, Adaptive Control of a Boost DC/DC Converter based on Artificial Intelligence, IFAC-PapersOnLine, Volume 58, Issue 13, 2024, Pages 721-725, ISSN 2405-8963, <https://doi.org/10.1016/j.ifacol.2024.07.567>. - **WOS**
15. **C. -M. Stancioi**, V. Muresan, M. Abrudean, I. Clitan, M. -L. Unguresan and T. Colosi, "Image Processing Based System for Detecting and Unloading Billets from a Hearth Rotary Furnace," 2022 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2022, pp. 1-5, doi: 10.1109/AQTR55203.2022.9802025. - **WOS**
16. **Cristina-Maria Stancioi**, Iulia Clitan, Mihai Abrudean, Honoriu Valean, Vlad Muresan, Mihaela-Ligia Unguresan, Implementing a System for Detecting and Unloading Billets from a Hearth Rotary Furnace, IFAC-PapersOnLine, Volume 55, Issue 1, 2022, Pages 896-901, ISSN 2405-8963, <https://doi.org/10.1016/j.ifacol.2022.04.147>. - **WOS**
17. Clitan, Iulia & **Stancioi, Cristina** & Muresan, Vlad. (2022). Predictive Motor Speed Control for an Industrial Robot. A Dead-Beat Approach. 10.1007/978-3-030-83368-8_27. - **WOS**

18. Marius Fisca, Mihail Abrudean, Vlad Muresan, Mihaela Ligia Unguresan, Iulia Clitan, Roxana Cordos, **Cristina Stancioi**, Modelling and Control of the 180 Isotope Separation Plant, CONTROL ENGINEERING AND APPLIED INFORMATICS, 2023, Volume 25, Pages 101-112. - **WOS**
19. **C. -M. Stancioi**, V. Muresan, M. Abrudean, I. Clitan, M. -L. Unguresan and O. Bunta, "Image Segmentation based System for Computing the Shifting of a Tooth," 2022 IEEE 16th International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, Romania, 2022, pp. 271-276, doi: 10.1109/SACI55618.2022.9919480. - **IEEE Xplore**
20. **C. -M. Stancioi**, I. Clitan, A. Mihai and V. Muresan, "Implementing a Pulmonary Fibrosis Diagnostic System Using the Matlab Environment," 2021 23rd International Conference on Control Systems and Computer Science (CSCS), Bucharest, Romania, 2021, pp. 46-52, doi: 10.1109/CSCS52396.2021.00015. - **IEEE Xplore**
21. **C. Stancioi**, V. Muresan, I. Clitan, M. Abrudean and V. Sita, "Avoiding Car Theft by Improving the Keyless Technology in Vehicles," 2023 8th International Conference on Robotics and Automation Engineering (ICRAE), Singapore, Singapore, 2023, pp. 148-153, doi: 10.1109/ICRAE59816.2023.10458540. - **IEEE Xplore**
22. **C. -M. Stancioi**, V. Muresan, I. Clitan, M. Abrudean and V. Sita, "Implementing Automatic Functionalities using an Electric Power Steering System," 2023 8th International Conference on Robotics and Automation Engineering (ICRAE), Singapore, Singapore, 2023, pp. 171-176, doi: 10.1109/ICRAE59816.2023.10458554. - **IEEE Xplore**
23. **C. -M. Stancioi**, V. Muresan and V. -I. Sita, "Optimizing Liquid Level Control in Double Tank Systems: A PID Controller Approach," 2024 International Conference on Electrical, Computer and Energy Technologies (ICECET), Sydney, Australia, 2024, pp. 1-5, doi: 10.1109/ICECET61485.2024.10698462. - **IEEE Xplore**
24. **C. -M. Stancioi**, V. Muresan and L. C. Miclea, "Development of an Advanced Slip Control System for Enhanced Vehicle Stability: A Mathematical Modeling Approach," 2024 International Conference on Electrical, Computer and Energy Technologies (ICECET), Sydney, Australia, 2024, pp. 1-5, doi: 10.1109/ICECET61485.2024.10698704. - **IEEE Xplore**
25. Muresan, Vlad & **Stancioi, Cristina-Maria** & Abrudean, Mihail & Miron, Radu. (2024). Improving Microgrid Efficiency with AI-Based Control of Boost DC/DC Converters. 193-197. 10.1109/ICRAE64368.2024.10851656. - **IEEE Xplore**

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