

A9. Lista lucrărilor științifice publicate în volumele unor conferințe

1. B. Gherman, A. Banica, P. Tucan, C. Vaida, T. Antal and D. Pislă, "Inverse dynamic modeling of a parallel wrist rehabilitation robot towards an assistive control modality," 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), 2021, pp. 284-289, doi: 10.1109/ICSTCC52150.2021.9607164. (ISI Pro);
2. B. Gherman, A. Caprariu, F. Puskas, A. Pislă, T. Antal and D. Pislă, "Evaluation and selection of a collaborative robot for a tuberculosis sample collection isolated booth," 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), 2021, pp. 553-558, doi: 10.1109/ICSTCC52150.2021.9607252. (ISI Pro);
3. Calin Vaida, Iosif Birlescu, Alexandru Pusca, Bogdan Gherman, Paul Tucan, Tiberiu Alexandru Antal & Doina Pislă. (2022). Geometric Modeling of a New Modular Spherical Robotic System for Single Incision Laparoscopic Surgery. In: Müller, A., Brandstötter, M. (eds) Advances in Service and Industrial Robotics. RAAD 2022. Mechanisms and Machine Science, vol 120. Springer, Cham. https://doi.org/10.1007/978-3-031-04870-8_43. (ISI Pro);
4. Alexandru Banica, Bogdan Gherman, Nicoleta Tohanean, Tiberiu Antal, Adrian Pislă, Cristian Abrudan, Giuseppe Carbone & Doina Pislă. Inverse Dynamic Modeling of a Parallel Elbow Rehabilitation Robot for Spasticity Treatment. In: Müller, A., Brandstötter, M. (eds) Advances in Service and Industrial Robotics. RAAD 2022. Mechanisms and Machine Science, vol 120. Springer, Cham. https://doi.org/10.1007/978-3-031-04870-8_46. (ISI Pro);
5. Alin Burz; Nadim Al Hajjar; Paul Tucan; Corina Radu; Adrian Pislă; Florin Graur; Calin Vaida; Calin Popa; Tiberiu Antal; Doina Pislă, "On the control system for the robotic assisted instruments used in percutaneous cancer treatment" 2022 26th International Conference on System Theory, Control and Computing (ICSTCC), 2022, pp. 283-288, doi: 10.1109/ICSTCC55426.2022.9931813. (ISI Pro);
6. Rus Gabriela, Bogdan Gherman, Laurentiu Nae, Calin Vaida, Adrian Pislă, Eduard Oprea, Claudiu Schonstein, Tiberiu Antal & Doina Pislă (2023). Fuzzy Logic Systems: From Wisdom of Age Mentoring Platform to Medical Robots. In: Tarnita, D., Dumitru, N., Pislă, D., Carbone, G., Geonea, I. (eds) New Trends in Medical and Service Robotics. MESROB 2023. Mechanisms and Machine Science, vol 133. Springer, Cham. https://doi.org/10.1007/978-3-031-32446-8_6, (ISI Pro);
7. Antal, T.A. (2024). Algorithm for Obtaining Balanced Specific Sliding Coefficients at the Points Where the Meshing Stars and Ends for External Spur Gears. In: Pislă, D., Carbone, G., Condurache, D., Vaida, C. (eds) Advances in Service and Industrial Robotics. RAAD 2024. Mechanisms and Machine Science, vol 157. Springer, Cham. https://doi.org/10.1007/978-3-031-59257-7_32 (ISI Pro);
8. Gabriela Rus, Nadim Al Hajjar, Paul Tucan, Ionut Zima, Calin Vaida, Corina Radu, Daniela Jucan, Damien Chablat, Tiberiu Antal, Doina Pislă. (2024). The Control Architecture of a Spherical Robot for Minimally Invasive Surgery. In: Lovasz, EC., Ceccarelli, M., Ciupe, V. (eds) Mechanism Design for Robotics. MEDER 2024. Mechanisms and Machine Science, vol 166. Springer, Cham. https://doi.org/10.1007/978-3-031-67383-2_45. (ISI Pro);

9. Paul Tucan, Iosif Birlescu, Alexandru Pusca, Bogdan Gherman, Daniela Jucan, Tiberiu Antal, Calin Vaida, Adrian Pisla, Damien Chablat, Doina Pisla. (2024). A Flexible Instrument for Robotic Assisted Minimally Invasive Esophagectomy. In: Rosati, G., Gasparetto, A., Ceccarelli, M. (eds) New Trends in Mechanism and Machine Science. EuCoMeS 2024. Mechanisms and Machine Science, vol 165. Springer, Cham. https://doi.org/10.1007/978-3-031-67295-8_8 (ISI Pro);
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11. Resanovic D. and Balc Nicolae, „Literature Review on the Current State-of-the-Art in Research and Technological Advancements in the Field of Machine Learning Applied to Predictive Maintenance”, Advances in Production Management Systems-Production Management Systems For Volatile, Uncertain, Complex, And Ambiguous Environments, APMS 2024, PT IV, vol. 731, pp. 103-119, 2024. https://doi.org/10.1007/978-3-031-71633-1_8; ISI Proceedings
12. Stanciu Birlescu A. and Balc Nicolae, „Tree-Like Fractal Structures Modeling and Their Application in 3D Printed Bones”, New Trends In Medical And Service Robotics, MESROB 2023, vol. 133, pp. 371-378, 2023. https://doi.org/10.1007/978-3-031-32446-8_40; ISI Proceedings
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17. Biruk-Urban K., Jozwik J., Bere Petru Paul, Parparita M.. (2023). Influence of Different Technological Parameters on Cutting Force in Drilling GFRP Composites. 2023 IEEE 10th International Workshop on Metrology for AeroSpace, MetroAeroSpace 2023 - Proceedings, , 275-279. <https://doi.org/10.1109/MetroAeroSpace57412.2023.10190054>;
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36. Constantinescu, C.; Rus, R.; Rusu, C.A.; Popescu, D.; Digital Twins of Exoskeleton-Centered Workplaces: Challenges and Development Methodology, In Proceedings of the 25th International Conference on Production Research Manufacturing Innovation: Cyber-physical Manufacturing, 2019, Vol. 39, pp. 58-65, ISSN 2351-9789.