



Lista de lucrări

A. Lista articolelor indexate Web of Science cu factor de impact

1. **A Rule-Based Clinical Decision Support System for COVID-19 Severity Stratification in Oncology Patients: A Retrospective Study**
Author(s): Manea, E.-V.; Radulescu, V.M.; **Pană, C.F.**; Georgescu, I.; Șerbănescu, M.S.; Hodorog, A.D.; Popescu, S.O.; Vrăjitoru, N.-R.; Dricu, A.; Artene, S.-A. Appl. Sci. 2026, 16, 2744. Impact Factor: 2.5 (2024); Q2, (in the process of WOS-indexing)
(<https://doi.org/10.3390/app16062744>)
2. **Risk Stratification of COVID-19 Severity In Cancer Patients Using Machine Learning Algorithms**
Author(s): Manea, EV; Artene, SA; Hodorog, AD; Serbanescu, MS; Stoian, IAM; Georgescu, I; **Pana, C**; Popescu, SO; Dricu, A, FARMACIA, 2026, Volume 74, Issue 1, Page 245-253, Impact Factor: 1,3 (2024); Q4, [WOS:001704636300023](https://www.webofscience.com/wos/woscc/full-record/WOS:001704636300023)
(<https://www.webofscience.com/wos/woscc/full-record/WOS:001704636300023>)
3. **Fault Detection and Diagnosis for Human-Centric Robotic Actuation in Healthcare: Methods, Failure Modes, and a Validation Framework**
Author(s): Maican, C.A.; **Pană, C.F.**; Vrăjitoru, N.R.; Pătrașcu-Pană, D.M.; Rădulescu, V.M., Actuators 2025, 14, 566. Impact Factor: 2.3 (2024); Q2, [WOS:001646016700001](https://www.webofscience.com/wos/woscc/full-record/WOS:001646016700001), (corresponding author)
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4. **Review of Fault Detection and Diagnosis Methods in Power Plants: Algorithms, Architectures, and Trends**
Author(s): Maican, C.A.; Pană, C.F.; Pătrașcu-Pană, D.M.; Rădulescu, V.M., Appl. Sci. 2025, 15, 6334. Impact Factor: 2.5 (2024); Q2, [WOS:001505713200001](https://www.webofscience.com/wos/woscc/full-record/WOS:001505713200001), (corresponding author)
(<https://www.webofscience.com/wos/woscc/full-record/WOS:001505713200001>)
5. **Dynamic control simulation of a new joint model with energy recovery during walking, using magnetorheological fluids, for lower limb prosthesis**
Author(s): Vladu, I.C., **Pană, C.F.**, Copilusi, C., ... Manta, L.F., Mariniuc, A.M., Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2024, 46(9), 563, Journal Impact Factor (JIF):1.8, Q2, [WOS:001296619100003](https://www.webofscience.com/wos/woscc/full-record/WOS:001296619100003)
(<https://www.webofscience.com/wos/woscc/full-record/WOS:001296619100003>)
6. **Digital-Focused Approaches in Cancer Patients' Management in the Post-COVID Era: Challenges and Solutions**
Author(s): Georgescu, I., Dricu, A., Artene, S.-A., ... **Pană, C.**, Popescu, S.O., Applied Sciences (Switzerland), 2024, 14(18), 8097, Impact Factor: 2.5 (2024); Q2, [WOS:001323925000001](https://www.webofscience.com/wos/woscc/full-record/WOS:001323925000001), (corresponding author)
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7. **Patent Review of Lower Limb Rehabilitation Robotic Systems by Sensors and Actuation Systems Used**
Author(s): **Pană, C.F.**, Popescu, D., Rădulescu, V.M., Sensors, 2023, 23(13), 6237, Impact Factor: 3.4 (2023); 5-Year Impact Factor: 3.7 (2023), Q2, [WOS:001031060600001](https://www.webofscience.com/wos/woscc/full-record/WOS:001031060600001)
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8. **Application of the Residue Method in Steam Superheater Fault Detection**
Author(s): Maican, C.A., Rădulescu, V.M., **Pană, C.F.**, Applied Sciences (Switzerland), 2023, 13(20), 11476, Journal Impact Factor (JIF): 2,5, Q2, [WOS:001095725000001](https://www.webofscience.com/wos/woscc/full-record/WOS:001095725000001), (corresponding author)
(<https://www.webofscience.com/wos/woscc/full-record/WOS:001095725000001>)
9. **Thermal stability, rheological and morpho-structural properties of the magnetorheological fluid MRF122 employed in spherical joint mechanisms**
Author(s): Daniela SÂRBU, Nicu George BÎZDOACĂ, Nicoleta CIOATERĂ, Cristian Ionel VLADU, Andrei ROTARU, **Cristina Floriana PANĂ**, Daniela Maria PĂTRAȘCU, Gabriel FLORIAN, Petre

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10. The impact of Covid on lower-limb exoskeleton robotic system patents – A review,

Author(s): **Cristina Floriana Pană**, Virginia Maria Rădulescu, Daniela Maria Pătrașcu-Pană, Florina Luminița (Besnea) Petcu, Ionuț Cristian Reșceanu, Ștefan Irinel Cismaru, Andrei Trăsculescu and Nicu Bîzdoacă, Appl. Sci. 2022, 12, 5393, Impact Factor: 2.7 (2022); Q2, [WOS:000808625500001](https://www.webofscience.com/wos/woscc/full-record/WOS:000808625500001)

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11. The Design of a Smart Lower-Limb Prosthesis Supporting People with Transtibial Amputation—A Data Acquisition System.

Author(s): **Pană, Cristina Floriana**; Manta, L.F.; Vladu, I.C.; Cismaru, Ș.I.; Petcu, F.L.; Cojocaru, D.; Bîzdoacă, N., Appl. Sci. 2022, 12, 6722, ISSN: 2076-3417, Impact Factor: 2.7 (2022); Q2, [WOS:000823944100001](https://www.webofscience.com/wos/woscc/full-record/WOS:000823944100001)

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12. The design of an intelligent robotic wheelchair supporting people with special needs, including for their visual system,

Author(s): Dorian Cojocaru, Liviu Florin Manta, **Cristina Floriana Pană**, Andrei Dragomir, Alexandru Marin Mariniuc and Ionel Cristinel Vladu, Healthcare 2022, 10(1), 13, p1-19, Impact Factor: 2,8 (2022); Q2, [WOS:000747812500001](https://www.webofscience.com/wos/woscc/full-record/WOS:000747812500001)

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13. Cooperative Robot Structures Modeled After Whale Behavior and Social Structure

Author(s): Resceanu, IC; **Resceanu (Pană) CF**; Bizdoaca, NG; Calugaru, GC, International Journal of Computers, Communications & Control (IJCCC), INT J COMPUT COMMUN, ISSN 1841- 9836; E-ISSN 1841-9844, 7(5):945-956, December, 2012, **Impact Factor 2023: IF=2 (Q3)**, [WOS:000310664900018](https://www.webofscience.com/wos/woscc/full-record/WOS:000310664900018)

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B. Alte articole indexate Web of Science

14. Cost effective system for determining the weight distribution correlated with the stepping phase for lower limb prosthesis

Author(s): Ionel Cristian Vladu, Florin Manta, **Cristina Pana**, Stefan Cismaru, Andrei Trasculescu and Dorian Cojocaru, 2022, 23rd International Carpathian Control Conference (ICCC), 2022, 29 May 2022 - 01 June 2022, [WOS:000925203600067](https://www.webofscience.com/wos/woscc/full-record/WOS:000925203600067), (corresponding author)

(<https://www.webofscience.com/wos/woscc/full-record/WOS:000925203600067>)

15. A Study Regarding Deep Q-Learning Algorithm for Creating Intelligent Characters in Graphic Engine

Author(s): Ionut Cristian Resceanu, Robert Vlad Iacov, Virginia Radulescu, Stefan- Irinel Cismaru, Florina Petcu, **Cristina Pana**, Andrei Trasculescu, 2022, 23rd International Carpathian Control Conference (ICCC), 2022, 29 May 2022 -01 June 2022, [WOS:000925203600023](https://www.webofscience.com/wos/woscc/full-record/WOS:000925203600023), (corresponding author)

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16. Controllable passive transtibial prosthesis – Design

Author(s): Ionel Cristian Vladu, **Cristina Pana**, Cristian Copilusi, Iulian Petrisor, Ileana Vladu, Nicu Bîzdoacă, International Conference on Robotics in Alpe-Adria Danube Region, RAAD 2021: Advances in Service and Industrial Robotics pp 176-183, [WOS:001300061600019](https://www.webofscience.com/wos/woscc/full-record/WOS:001300061600019) (corresponding author)

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17. Brain-Computer Virtual Reality Interface System for Brainwave Analyze in Medical Recovery

Author(s): Florina Besnea Petcu, Ionut-Cristian Resceanu, Andrei-Costin Trasculescu, **Cristina Pana**, Stefan-Irinel Cismaru, Hani Hamdan and Nicu-George Bizdoaca, 2021, 22ND INTERNATIONAL CARPATHIAN CONTROL CONFERENCE (ICCC), 2021, pp. 1-5, [WOS:000948184600006](https://www.webofscience.com/wos/woscc/full-record/WOS:000948184600006), (corresponding author)

(<https://www.webofscience.com/wos/woscc/full-record/WOS:000948184600006>)

18. APF-based Control for Obstacle Avoidance in Smart Electric Wheelchair Navigation

Author(s): Liviu Florin Manta, **Cristina Pana**, Dorian Cojocaru, Ionel Cristian Vladu, Andrei Dragomir and Daniela Pătrașcu, 2021, 22nd International Carpathian Control Conference (ICCC), 2021, pp. 1-6, [WOS:000948184600029](https://www.webofscience.com/wos/woscc/full-record/WOS:000948184600029), (corresponding author)

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19. Human-Machine Interface for controlling a light robotic arm by persons with special needs

Author(s): Andrei Dragomir, **Cristina Pana**, Dorian Cojocaru and Florin Manta 2021, 22nd International Carpathian Control Conference (ICCC), 2021, pp. 1-6, [WOS:000948184600012](https://www.webofscience.com/wos/woscc/full-record/WOS:000948184600012), (corresponding author)

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20. **Smart design solution for improving life of people with locomotion disabilities**
 Author(s): **Cristina Pana**, Cristian Ionel Vladu, Florina Besnea Petcu, Stefan-Irinel Cismaru, Andrei-Costin Trasculescu, Hani Hamdan and Nicu-George Bizdoaca, 2021, 22nd International Carpathian Control Conference (ICCC), 2021, pp. 1-6, [WOS:000948184600038](https://www.webofscience.com/wos/woscc/full-record/WOS:000948184600038)
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 21. **Fuzzy control of the robotic arm for a smart electric wheelchair to assist people with movement disabilities**
 Author(s): **Cristina Pana**, Daniela Pătrașcu, Cristian Vladu, Florin Manta, Florina Besnea, Stefan Cismaru and Andrei Trasculescu, 2021 22nd International Carpathian Control Conference (ICCC), 2021, pp. 1-6, doi: 10.1109/ICCC51557.2021.9454626, [WOS:000948184600037](https://www.webofscience.com/wos/woscc/full-record/WOS:000948184600037)
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 22. **Locomotion Solution for Stair Climbing Wheelchair with ER Fluid Based Control**,
 Author(s): Stoian, V; Vladu, IC; Vladu, I; **Pana, C**; Patracu, D, 2019 20th International Carpathian Control Conference (ICCC), Pages: 336- 341, 2019, I, [WOS:000490570500070](https://www.webofscience.com/wos/woscc/full-record/WOS:000490570500070)
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 23. **Young Engineers Involved in Education and Research**
 Author(s): Cojocar, D., Manta, F.L., **Resceanu (Pană) C.**, Pana, D.P., 2018 28th EAEEIE Annual Conference, EAEEIE 2018, 13 November 2018, Article number 8534208, 28th European Association for Education in Electrical and Information Engineering Annual Conference, EAEEIE 2018; Menntasetrio vio LaekinnHafnarfjordur; Iceland; 26 September 2018 through, 28 September 2018; Category numberCFP1896D-ART; Code 142510, [WOS:000495079100005](https://www.webofscience.com/wos/woscc/full-record/WOS:000495079100005)
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 24. **SaaS solutions for small-medium businesses: Developer's perspective on creating new SaaS products**
 Author(s): Ionut RESCEANU, **Cristina RESCEANU (Pană)**, Sabin SIMIONESCU, 18th International Conference System Theory, Control and Computing (ICSTCC 2014), Sinaia, România, 17 – 19 octombrie 2014, ISBN 978-1- 4799-4602-0, pp. 140 – 144, publicat în IEEE Xplore Digital Library, [WOS:000704338900025](https://www.webofscience.com/wos/woscc/full-record/WOS:000704338900025)
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 25. **Developing a framework for websites with international audience**
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 26. **Strategy planning for mirosot soccer's robot**
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 27. **Locomotion of legged robot with locked joint**
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 28. **Remote Monitoring And Diagnosis of a Mechatronic System**
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 29. **Wireless Communication for Monitoring a Telerobotic Systems**
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 30. **Using robotic systems in a smart house for people with disabilities**
 Author(s): Stoian, Viorel; **Pană, Cristina**, Conference: 5th International Conference on Informatics in Control, Automation and Robotics Location: Funchal, PORTUGAL Date: MAY 11- 15, Vol 2, Pages: 281-286, 2008, [WOS:000258901100048](https://www.webofscience.com/wos/woscc/full-record/WOS:000258901100048), (corresponding author)
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33. **Fuzzy logic algorithm for mobile robot control**
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35. **Applications of the hyper-redundant robotic structures to hands of the people with great disabilities**
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<https://www.webofscience.com/wos/woscc/full-record/WOS:000241464000044>)

C. Article indexate SCOPUS

37. **The Design of A New Master Program in the Field of Mechatronics and Robotics Domain**
 Author(s): Dorian Cojocaru; **Cristina Pana**; Ionut Resceanu; Florin Manta; Daniela Patrascu Pana; Nicu George Bizdoaca, 2025, 34th Annual Conference of the European Association for Education in Electrical and Information Engineering (EAEEIE), Cluj-Napoca, Romania, 2025, pp. 1-6, doi: 10.1109/EAEEIE65428.2025.11136362
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38. **Supporting the Quality of Higher Education in Engineering by Organising Student Competitions - ZEM 2025**
 Author(s): D. Cojocaru, D. Popescu, F. Manta, I. Resceanu, F. Petcu, C. Pana, H. Roibu, D. P. Patrascu, N. George Bizdoaca, 2025 34th Annual Conference of the European Association for Education in Electrical and Information Engineering (EAEEIE), Cluj-Napoca, Romania, 2025, pp. 1-6, doi: 10.1109/EAEEIE65428.2025.11136651
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39. **Functional Testing for a Lower Limb Rehabilitation Robotic System**
 Author(s): Popescu, D., Roibu, H., Copilusi, C.P., ... **Pana, C.F.**, Popescu, L.C., EPEi 2024 - Proceedings of the 2024 13th IEEE International Conference and Expositions on Electric and Power Engineering, 2024, pp. 94-99
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40. **Mixed Reality Application in Robot Navigation and Control**
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41. **Position Control of Active Arms of the DaVinci Robotic Surgical System**
 Author(s): **Pana, C.F.**, Radulescu, V.M., Voicila, D.D., Patrascu-Pana, D.M., Resceanu, I.C., Proceedings of the 2023 24th International Carpathian Control Conference, ICC 2023, 2023, pp. 321-325
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42. **Inspection results map module for a metrological calibration and verification system to support the Smart City Vision**
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44. **Some aspects of a Williamson fluid**
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46. **Control algorithms for multi-legged robots in fault conditions using fuzzy logic,**
 Author(s): **Resceanu (Pana) Cristina**, 15th International Conference on System Theory and Control Joint Conference SINTES 15, SACCs 11, SIMSIS 15 Sinaia, Romania, October 14 - 16, 2011, Electronic ISBN:978-973-621-321-2, Print ISBN:978-1-4577-1173-2, CD: 978-973-621-323-6
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47. **Intelligent live environment design with assistive robots for vulnerable persons,**
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