

**Anul 2024**

**1.Cărți publicate: 3**

- **Negrean, I.**, Curs. Mecanică teoretică, Dinamica, 2024, pagini 210, format A4
- **Munteanu, V., Modrea, A., Vlase, S.** Mecanica. Statica. *Note de curs*, 2024, Ediura University Press, Targu-Mures
- **Pisla, D.** (2024). *Advances in Service and Industrial Robotics: RAAD 2024*. Springer Nature.

**2.Articole sau capitole în cărți sau monografiile internaționale: 8.(Anexa 1);**

- **articole în JESI : 8 (Anexa 2)**

**3.Articole (cu sau fără menționarea apartenenței la ASTR)**

- **Lucrări la conferințe internaționale:** 38(Anexa 3. 1);
- **Articole clasificate ISI:** 70 (Anexa 3. 2);
- **Articole în Proceedings:** 19 (Anexa 3. 3);
- **Articole publicate în baze de date BDI:** 24 (Anexa 3. 4);
- **Articole publicate in buletine șt.:** 2 (Anexa 3. 5);
- **Citări în reviste indexate ISI:** 1002;
- **Citări în reviste indexate BDI:** 1245.

## Anexa 1. Capitle în cărți sau monografiile naționale, internaționale: 8

1. **Condurache, D.**, “*Advances Representation of Higher-Order Kinematics of Motion. Hypercomplex Lie Groups and Lie Algebras*”, April 2024, In book: Mechanisms and Machine Science, vol 154. Publisher: Springer, Cham. [https://doi.org/10.1007/978-3-031-51085-4\\_14](https://doi.org/10.1007/978-3-031-51085-4_14)
2. **Condurache, D.**, Pislă, D., Giuseppe Carbone, Vaida., C. “*Advances in Service and Industrial Robotics*”, RAAD 2024 May 2024, Publisher: Springer Cham, ISBN: 978-3-031-59256-0
3. **Condurache, D.**, “*A Generalization of the Bresse Properties in Higher-Order Kinematics*” July 2024, DOI: 10.1007/978-3-031-64057-5\_12, In book: Advances in Robot Kinematics 2024, Publisher: Springer
4. **Condurache, D.**, Cojocari, M., Birlescu, I., Gherman, B. (2024). “*Automatic Differentiation of Serial Manipulator Jacobians Using Multidimensional Algebra*”. 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\\_38](https://doi.org/10.1007/978-3-031-59257-7_38)
5. Chiroasca, AM., **Rusu, L.**, 2024. Wind Climate Analysis at the Future Wind Farm Positions in the Mediterranean Sea. In: Chen, L. (eds) *Advances in Clean Energy Systems and Technologies*. Green Energy and Technology, Springer Nature, pp. 103-109. ISBN 978-3-031-49786-5. Link capitol [https://doi.org/10.1007/978-3-031-49787-2\\_11](https://doi.org/10.1007/978-3-031-49787-2_11) (Link carte: <https://link.springer.com/book/10.1007/978-3-031-49787-2>)
6. Chiroasca, A. M., **Rusu, L.**, 2024. Study on the behaviour of a container ship in the Mediterranean Sea area, In: Guedes Soares & Santos (Eds), *Advances in Maritime Technology and Engineering*, Taylor & Francis Groupe, CRC Press, Vol. 2, pp. 221-226. ISBN 978-1-032-83107-7. Link carte: <https://doi.org/10.1201/9781003508779>
7. **V. Năstăsescu, A.** Toma - Chapter 8: Assessment of Radial Displacements in Rotating Disc of Uniform Thickness Made of Functionally Graded Material: A Comparative Quantitative Study, [Science and Technology - Recent Updates and Future Prospects](#), Vol. 8, 09.07.2024, Print ISBN: 978-81-976653-2-5 , eBook ISBN: 978-81-976653-8-7, DOI: <https://doi.org/10.9734/bpi/strufp/v8/1244> (pg. 165-184)
8. **V. Năstăsescu, Gh.** Barsan, O. Mocian - Chapter 3 : Influence of Material Property and Geometry on Acoustic Wave Propagation, [Science and Technology - Recent Updates and Future Prospects](#), Vol. 10 , 14.08.2024, ISBN 978-93-48006-52-3 (Print), ISBN 978-93-48006-11-0 (eBook), DOI: <https://doi.org/10.9734/bpi/strufp/v10>, (pg. 38-55)

## Anexa 2. Articole apărute în JESI – 8

1. **Costică Atanasiu**, Ștefan Sorohan “Buckling of perforated discs”, Volume 9, Issue 1 / 2024, pp. 1-14
2. **Mircea Radeș**, Locating excitation points in structural dynamic testing, Volume 9, Issue 1 / 2024, pp. 15-22
3. **Daniela Tarnita**, Marius Georgescu, Gabriela Marinache, Diana Prunoiu, Danuț-Nicolae Tarnita Study of human ankle joint stability during stairs up and stairs down, Volume 9, Issue 1 / 2024, pp. 23-32
4. **Doina Pisla**, Bogdan Gherman, Paul Tucan, Adrian Pisla, Nadim Hajjar, Andrei Cailean, Călin Vaida On the accuracy assessment of a parallel robot for the minimally invasive cancer treatment, Volume 9, Issue 3 / 2024, pp. 253 - 264
5. Eugen Rusu, Florin Onea, Alexandra Diaconita, **Liliana Rusu** Assessment of the solar and wind energy potential related to Romanian southern lakes
6. **Mircea Radeș** Using principal response analysis in rotordynamics, Volume 9, Issue 3 / 2024, p. 287 - 302
7. **Liliana Rusu** An overview of the renewable energy potential in the coastal environment of the Black Sea, Volume 9, Issue 2 / 2024, p. 169 - 182
8. **Daniela Tarnita**, Marius Catana 3D Modelling and numerical simulations of menisci in normal and steoarthritic human knee joint, Volume 9, Issue 4 / 2024, p. 371 - 382

## 3. Articole (cu sau fără menționarea apartenenței la ASTR)

### Anexa 3.1. Participări la conferințe științifice naționale, internaționale: 70

1. Badea, M.C, Hadăr, A., Năstăsescu, V., Bârsan, G., Adetu, A., Adetu, C., “Methods, Models, and Methodologies for Numerical Modeling of Projectile Impact on a Plate”, The 30<sup>th</sup> International Conference The Knowledge-Based Organization, 2024, Sibiu, Romania,

- Conference Proceedings 3, Applied Technical Sciences and Advanced Military Technologie, pp. 29-36, ISBN 978-973-153-578-4
2. Constantin, B.N., **Hadăr A.**, Pastramă, S.D., “*Experimental Tests of the Strength for a Freight Wagon*”, 40<sup>th</sup> Danubia Adria Symposium on Advances in Experimental Mechanics (DAS 40), pp. 177-178, 24-27 September 2024, Gdańsk, Poland
  3. **N.D.Stanescu** - Participare la al 30-lea International Congress on Sound and Vibration ICSV 30, Amsterdam, 8-11 iulie 2024.
  4. **N.D.Stanescu** - Participare la Zilele ASTR, Universitatea din Craiova, 19-20 septembrie 2024
  5. **N.D.Stanescu** - Participare 10th International Conference on Advanced Materials and Structures (AMS 2024), 30 mai-1 iunie 2024, Timisoara, Romania
  6. **N.D.Stanescu** - Participare The 3rd International Conference on Mechanical System Dynamics (ICMSD 2024), 1-4 septembrie 2024, Beijing, China
  7. **N.D.Stanescu** - Participare 70th International Conference on VIBROENGINEERING, 18-19 octombrie 2024, Cluj-Napoca, Romania
  8. **Rusu, L.**, 2024. Climate Change Impact on the Sea State Conditions in the Mediterranean Sea Under RCP and SSP Scenarios, presented at the 2nd Asia Pacific Conference on Sustainable Development of Energy, Water and Environment Systems (AP SDEWES), held in hybrid mode, April 02-05, 2024, Gold Coast, Australia.  
<https://www.goldcoast2024.sdewes.org/>
  9. **Rusu, L.**, 2024. Climate Change Impact on the Future Sea State Conditions in the Black Sea, , presented at the 17th International Coastal Symposium (ICS2024), 24-27 September, Doha, Qatar. <https://www.ics2024.org/>
  10. **Rusu, L.**, 2024. Evaluarea efectelor schimbărilor climatice asupra climatului de val din Marea Neagră. Prezentare la Conferința internațională „Zilele ASTR – 2024”, Ediția a XIX-a 19 și 20 Septembrie 2024, Craiova.
  11. Bernardino, M., Schneider, M., **Rusu, L.**, 2024. A wave energy assessment for the Moroccan Coast, 8<sup>th</sup> Europe Congress of the International Association for Hydro-Environment Engineering and Research (IAHR 2024), 04-07 June 2024, Lisbon, Portugal.  
<https://www.iahr2024.lnec.pt/>
  12. Mateescu, R., Golumbeanu, M., Vlasceanu, E., **Rusu, L.**, Budileanu, M., 2024. Downstream operational services supported by the Copernicus marine environment service for the western Black Sea’s fisheries, THALASSA 2024 – Marine Sciences Conference, 28-29 May, Larnaca, Cyprus. <https://www.cmmi.blue/thalassa-2024/>
  13. Chiroasca, A.-M., **Rusu, L.**, 2024. Study on the behaviour of a container ship in the Mediterranean Sea area, 7<sup>th</sup> International Conference on Maritime Technology and Engineering, 14-16 May 2024, Lisbon, Portugal.  
<http://www.centec.tecnico.ulisboa.pt/martech2024/>
  14. Ganea, D., **Rusu, L.**, 2024. Assessment of the offshore wind energy along the European cost line, IEEE conference on Advanced Topics on Measurement and Simulation (ATOMS), 28-30 August 2024, Constanta, Romania. <http://atoms2024.org/index.html>
  15. Mateescu, E., Vlăsceanu, E., Gulten, R., Constantin, S., Serban, I., Tătui, F., **Rusu, L.**, 2024. Current coastal changes’ evaluations developed for the western Black Sea shore, based on earth observation products, poster presentation at 17th International Conference - European Coastal Challenge Summit - LITTORAL24, 24-27 September 2024, Constanta, Romania.  
<https://littoral24.univ-ovidius.ro/>

16. Gulten, R., *Vlasceanu, E.*, Mateescu, R., **Rusu, L.**, Niculescu, D., 2024. The hydrological and geomorphological effects induced during the winter storms produced in the northwestern Black Sea basin, in the context of the climate changes, 3rd World Conference on Meteotsunamis, 13-17 October 2024, Bodrum, Turkey.  
<https://www.3rdmeteotsunami.org/>
17. Chiroasca, A.M., **Rusu, L.**, Popa, V.I., Rusu, E., 2024. Climate analysis along the navigation routes on the Danube, XXIVth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM 2024, Section Hydrology and Water Resources, 29 June - 8 July 2024, Albena, Bulgaria.
18. Manolache, A.I., Chiroasca, A-M, **Rusu, L.**, 2024. Assessment of wind and wave climate dynamics in the Mediterranean and Black Seas for renewable energy potential analysis, 9th International Conference on Advances on Clean Energy Research (ICACER 2024), held in hybrid mode, April 27-29, 2024, Lille, France. <https://www.icacer.com/2024.html>
19. Mateescu, R., Niculescu, D., Vlasceanu, E., **Rusu, L.**, Valdenbulche, L., 2024. Downstream operational services supported by the Copernicus marine environment service for Black Sea coastal and marine areas protection, online Smart Marine Conservation FORUM, 4-6 March 2024, Al Hoceima, Morocco. <https://smart-marine-conservation-forum.spa-rac.org/>
20. Mateescu, R., **Rusu, L.**, Vlasceanu, E., Niculescu, D., 2024. Coastal waves' gauge stations network extension in the Romanian coastal areas, Its support of the fisheries and experimental aquaculture farms management, poster presentation online Smart Marine Conservation FORUM, 4-6 March 2024, Al Hoceima, Morocco. <https://smart-marine-conservation-forum.spa-rac.org/>
21. Conferința “Zilele ASTR”, septembrie 2024, lucrarea prezentată- **Iuliu Negrean**, “Acceleration Energies and Higher-Order Dynamic Equations in Analytical Mechanics”
22. International Conference on Robotics in Alpe-Adria Danube Region- RAAD 2024, Cluj Napoca, iunie 2024
23. IFToMM International Symposium on Robotics and Mechatronics, ISRM 2024, Djerba, Tunisia, aprilie 2024
24. IFToMM Symposium on Mechanism Design for Robotics, MEDER 2024, iunie 2024, Timisoara
25. The Joint International Conference of the XIV International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXVI International Conference on Robotics (ROBOTICS) Iasi, Romania, November 14 – 16, 2024
26. International Conference on Advanced Research in Engineering, Craiova, CARE 2024, 17-19 octombrie 2024
27. Conferința internațională Zilele ASTR 2024 – Craiova, 17-19 septembrie, 2024
28. Conferința „Zilele ASTR 2024” – Craiova, 17-19 septembrie –membru in comitetul de organizare
29. 10th International Conference Advanced Composite Materials Engineering- 22-23.10.2024, Brasov- membru în comitetul de organizare
30. Conferința „Zilele ASTR 2024” – Craiova, 17-19 septembrie –membru in comitetul de organizare
31. 10th International Conference Advanced Composite Materials Engineering- 22-23.10.2024, Brasov- membru în comitetul de organizare
32. Coropețchi, I.A., **Constantinescu D.M.**, Vasile, A., Sorohan, Șt., Apostol, D.A., A Critical Evaluation of Design Methods for Dual-Phase Composites Optimization, SISOM 2024 and

Session of the Commission of Acoustics, September 19th – 20th, 2024, Bucharest, Romania, 2024 2.

33. Coropețchi, I.A., **Constantinescu, D.M.**, Vasile, A., Sorohan, Șt., Apostol, D.A., Direct search methods for determining new designs of auxetic composite materials, 40th Danubia-Adria Symposium on Advances in Experimental Mechanics, September 24-27, 2024, Gdansk, Poland, 2024
34. Vasile, A., **Constantinescu, D.M.**, Coropețchi, I.A., Sorohan, Șt., Apostol, D.A., Compression response of sandwich structures with novel TPMS cores, 40th Danubia-Adria Symposium on Advances in Experimental Mechanics, September 24-27, 2024, Gdansk, Poland, 2024
35. Coropețchi, I.A., **Constantinescu, D.M.**, Vasile, A., Sorohan, Șt., Apostol, D.A., Comparative analysis of direct search methods for material design optimization, MDA24, 5th International Conference on Materials Design and Applications, 04-05 July 2024, Porto, Portugal, 2024
36. Vasile, A., **Constantinescu, D.M.**, Coropețchi, I.A., Sorohan, Șt., Apostol, D.A., Definition, fabrication and testing of sandwich structures with novel TPMS-based cores, MDA23, 5th International Conference on Materials Design and Applications, 04-05 July 2024, Porto, Portugal, 2024
37. În cadrul conferinței 3rd International Conference – Innovation in Engineering am susținut lucrarea plenară intitulată: Latest trends in medical robotics for rehabilitation, <https://archive.icieng.eu/2024>.
38. În cadrul conferinței 3rd International Conference on Advanced Research in Engineering (CARE) adn 7th International Conference on Mechanical Engineering (ICOME) am susținut lucrarea plenară intitulată: Innovative Robots and Technologies in Medicine Anexa3.

### Anexa 3.2. Reviste clasificate ISI;

1. Tălîngă, A.M., **Hadăr, A.**, Drăgoi, M.V., Nisipeanu, I., Ali, H.A., Suci, C.P., “YOLO-v8 in Capturing Imperfections Generated by Changing 3D Printer Parameters”, U.P.B. Sci. Bull., Series C: Electrical Engineering and Computer Science, **86(4)**, 2024, pp. 253-266, ISSN 2286-3540, indexed: 2024-12-27, impact factor: 0.2, Q4
2. Drăgoi, M.V., Nisipeanu, I., Frimu, A., Tălîngă AM., **Hadăr, A.**, Dobrescu, T.G., Suci, C.P., Manea, A.R., “Real-Time Home Automation System Using BCI Technology”, Biomimetics, **9(10)**, 2024, 594, DOI10.3390/biomimetics9100594, impact factor: 3.4, Q1
3. Ursache, Ş., Cerbu, C., **Hadăr, A.**, Petrescu H.A., “Effects of Rubber Core on the Mechanical Behaviour of the Carbon-Aramid Composite Materials Subjected to Low-Velocity Impact Loading Considering Water Absorption”, Materials, **16(17)**, 2024, 4055, DOI10.3390/ma17164055, impact factor: 3.1, Q1
4. Iacob, M.C., Popescu, D., Stochioiu, C., Baci, F., **Hadăr, A.**, “Compressive behavior of thermoplastic polyurethane with an active agent foaming for 3D-printed customized comfort insoles”, Polymer Testing, **137**, 2024, DOI10.1016/j.polymertesting.2024.108517, impact factor:4.7, Q1
5. Ursache, Ş., Cerbu, C., **Hadăr, A.**, “Characteristics of Carbon and Kevlar Fibres, Their Composites and Structural Applications in Civil Engineering-A Review”, Polymers, **16(1)**, 2024, DOI10.3390/polym16010127, impact factor: 4.7, Q1
6. Valentin RĂCĂŞAN, **Nicolae-Doru STĂNESCU**, On Spatial Systems of Bars Spherically Jointed at Their Ends and Having One Common End, Mathematics, MDPI, 2024, WOS: 001310991100001, FI: 2.3, Q1
7. Iosif Birlescu, Nicoleta Tohanean, Calin Vaida, Bogdan Gherman, Deborah Neguran, Alin Horsia, Paul Tucan, **Daniel Condurache**, Doina Pisla, “Modeling and analysis of a parallel robotic system for lower limb rehabilitation with predefined operational workspace”, Mechanism and Machine Theory, Volume 198, 2024, 105674, ISSN 0094-114X, <https://doi.org/10.1016/j.mechmachtheory.2024.105674> .\
8. **Condurache, D.**, Mihail Cojocari, Ioan-Adrian Ciureanu, 2024.” A Closed Form of Higher-Order Cayley Transforms and Generalized Rodrigues Vectors Parameterization of Rigid Motion” Mathematics 13, no. 1: 114. <https://doi.org/10.3390/math13010114>
9. Bere, P., **Dudescu, C.**, Parparit, M., Vilau, C. (2024). Design and Manufacture of Bent and Variable Section Tubes Made of FRP Composite. MM SCIENCE JOURNAL, Vol. 2024, pp. 7511-7517, [https://doi.org/10.17973/MMSJ.2024\\_10\\_2024071](https://doi.org/10.17973/MMSJ.2024_10_2024071)
10. Muresanu, A. D., & **Dudescu, M. C.** (2024). Modelling of a Cylindrical Battery Mechanical Behavior under Compression Load. *Batteries*, 10(10), 353.
11. Muresanu, A. D., **Dudescu, M. C.**, & Tica, D. (2024). Study on the Crashworthiness of a Battery Frame Design for an Electric Vehicle Using FEM. *World Electric Vehicle Journal*, 15(11), 534
12. Zach, T. F., **Dudescu, M. C.** (2024). *The Three-Dimensional Printing of Composites: A Review of the Finite Element/Finite Volume Modelling of the Process*. Journal of Composites Science, 8(4), 146. <https://doi.org/10.3390/jcs8040146>

13. Cimpoieș, V. I., **Dudescu, M. C.** (2024). *Numerical and Experimental Stiffness Evaluation of Quilling Inspired Structures*. Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, and Engineering, 67(1), 81-88.
14. Berar, AM, **Dudescu, M.C.**, Carbonel, M., Bocanet, V., Buduru, S.D. (2024). In-Vitro Comparative Study of Compressive Strength In CAD/CAM Dental Materials, ROMANIAN JOURNAL OF ORAL REHABILITATION, 16(2), 119-134, DOI 10.6261/RJOR.2024.2.16.13.
15. Pop, S.I., **Dudescu, M.**, Ana, P., Kerekes-Mathe, B.E., Mitariu, M., Bud, E. Mitariu, L., Pacurar, M., Pop, R.V. (2024). Evaluation Of the Biomechanical Properties of in Vivo Used Orthodontic Mini-Implants, ROMANIAN JOURNAL OF ORAL REHABILITATION, 16 (1) 238-245, DOI 10.6261/RJOR.2024.1.16.20
16. Forward Fall Detection Using Inertial Data and Machine Learning, C Tufisi, ZI Praisach, **GR Gillich**, AI Bichescu, TL Heler, Applied Sciences 14 (22), 10552
17. A Stacked Neural Network Model for Damage Localization, CV Rusu, **GR Gillich**, C Tufisi, N Gillich, TH Bui, C Ionut, Sensors 24 (21), 7019
18. Signal Time-Shifting Effects on DFT Spectra, P Prvulović, **GR Gillich**, Đ Babić, Romanian Journal of Acoustics and Vibration 20 (1), 112-116
19. **Rusu, L.**, 2024. An analysis of the expected wave conditions in the Mediterranean Sea in the context of global warming. *Ocean Engineering*, 301, p.117487.  
<https://doi.org/10.1016/j.oceaneng.2024.117487>
20. **Rusu, L.**, 2024. An analysis of the environmental matrix in the Adriatic Sea – past and future projections, *J. sustain. dev. energy water environ. syst.*, 12(2), 1110480.  
<https://doi.org/10.13044/j.sdewes.d11.0480>, <https://www.sdewes.org/jsdewes/pid11.0480>
21. **Rusu, L.**, 2024. Climate Change Impact on the Future Sea State Conditions in the Black Sea. *Journal of Coastal Research*, SI113, 200-204.
22. Răileanu, A.B., **Rusu, L.**, Marcu, A. and Rusu, E., 2024. The Expected Dynamics for the Extreme Wind and Wave Conditions at the Mouths of the Danube River in Connection with the Navigation Hazards. *Inventions*, 9(2), p.41.  
<https://doi.org/10.3390/inventions9020041>
23. Mandru, A., **Rusu, L.**, Bekhit, A., Pacuraru, F., 2024. Numerical Study of a Model and Full-Scale Container Ship Sailing in Regular Head Waves. *Inventions*, 9(1), p.22.  
<https://doi.org/10.3390/inventions9010022>
24. deCastro, M., **Rusu, L.**, Pérez, B.A., Ribeiro, A., Costoya, X., Carvalho, D. and Gomez-Gesteira, M., 2024. Different Approaches to Analyze the Impact of Future Climate Change on the Exploitation of Wave Energy. *Renewable Energy*, 220, 119569.  
<https://doi.org/10.1016/j.renene.2023.119569>
25. **Negrean, I.**, Crisan, A., Vlase, S., „D’Alembert-Lagrange Principle in Symmetry of Advanced Dynamics of Systems”, *Symmetry* 2024, 16, 1105,  
<https://doi.org/10.3390/sym16091105>
26. Mare, I., **Negrean, I.**, Crișan, A., „Polynomial Functions in Robot Dynamics”, *RJAV* vol 21, issue 1/2024, ISSN 1584-7284, pp. 91-102
27. Mare, I., **Negrean, I.**, Vlase, S., „Gibbs-Appell Equations used in Finite Element Analysis of Elastic Materials with Voids having a Plane Motion”, *RJAV* vol 21, issue 1/2024, ISSN 1584- 7284, pp. 83-90

28. Mare, I., **Negrean, I.**, „Advanced Kinematics Modeling of a 2RTR Serial Robot”, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, ISSN 1221-5872, vol 67, issue III, august 2024, pp. 343-354.
29. Vasile, A., **Constantinescu, D.M.**, Coropețchi, I.C., Sorohan, Șt, Apostol, D.A., Assessment of the Additive Fabrication Quality of Sandwich Structures with Novel Triply Periodic Minimal Surface Cores, Solids, vol. 5(4), pp. 665-680, 2024, <https://doi.org/10.3390/solids5040045>, WOS: , IF=2,4
30. Coropețchi, I.C., **Constantinescu, D.M.**, Vasile, A., Sorohan, Șt, Apostol, D.A., Comparative analysis of direct search methods for material design optimization, Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, Early Access online, 2024, <https://doi.org/10.1177/14644207241294056>, WOS: 001354244800001, IF=2,5
31. Vasile, A., **Constantinescu, D.M.**, Coropețchi, I.C., Sorohan, Șt, Apostol, D.A., Definition, Fabrication, and Compression Testing of Sandwich Structures with Novel TPMS-Based Cores, Materials, vol. 17(21), 5150, 2024, <https://doi.org/10.3390/ma17215150>, WOS: 001351774100001, IF=3,1
32. Indreș, A.I., **Constantinescu, D.M.**, Mocian, O.A., Sorohan, Șt, Particularities on the Low Velocity Impact Behavior of 3D-Printed Sandwich Panels with Re-Entrant and Honeycomb Core Topologies, Journal of Composites Science, vol. 8, 426, 2024, <https://doi.org/10.3390/jcs8100426>, WOS: 001342654200001, IF=3.0
33. **Sorin Vlaşe**, Calin Itu, Marin Marin, Maria Luminta Scutaru, Florin Sabou, Radu Necula- Vibration analysis of the Gamma-Ray element in the ELI-NP interaction chamber (IC)- Journal of Computational Applied Mechanics 2024, 55(2): 275-288, 2024, FI=1.5
34. **Vlaşe, S**, **Marin, M** , Standard Deformations of Nonlinear Elastic Structural Elements with Power-Law Constitutive Model, MATHEMATICS, 2024, FI=2.3
35. Mostafa Katouzian, **Sorin Vlaşe** , Calin Itu and Maria Luminita Scutaru - Calculation of Homogenized Mechanical Coefficients of Fiber-Reinforced Composite Using Finite Element Method, Materials, 2024, FI=3.1
36. Calin Itu, Maria Luminita Scutaru and **Sorin Vlaşe** , Elastic Constants of Polymeric Fiber Composite Estimation Using Finite Element Method, 2024, FI=4.7
37. **Scutaru, ML**; **Vlaşe, S** ; **Marin, M** - Analytical mechanics methods in finite element analysis of multibody elastic system, BOUNDARY VALUE PROBLEMS , 2024, FI=1
38. **Scutaru, ML**; **Vlaşe, S** ; **Marin, M** , Flap and Wing Dynamics for a Light Sport Aircraft Analysis Using a Topological Model APPLIED SCIENCES-BASEL, 2024, FI=2.5
39. **Petrici, AV** ; **Scutaru, ML** ; **Munteanu, VM**; **Vlaşe S**- Use of New and Light Materials in Automotive Engineering for Towing System, 2024, APPLIED SCIENCES-BASEL, FI=2.5
40. **El Fakkoussi, S** ; **Vlaşe, S**; **Marin, M** ; **Koubaiti, O** ; **Elkhalfi, A** ; **Moustabchir, H** - Predicting Stress Intensity Factor for Aluminum 6062 T6 Material in L-Shaped Lower Control Arm (LCA) Design Using Extended Finite Element Analysis, Materials, 2024, FI=3.3
41. **Marin, M**; **Vlaşe, S**; **Neagu, D** , On a composite obtained by a mixture of a dipolar solid with a Moore-Gibson-Thompson media, , 2024, FI=1
42. **Montassir, S** ; **Moustabchir, H** ; **El Khalfi, A** ; **Vlaşe, S**; **Scutaru, ML** , Numerical Study of Crack Prediction and Growth in Automotive Wheel Rims, Materials, 2024, FI=3.3

43. [Katouzian, M](#) ; [Vlase, S](#) ; [Marin, M](#), Elastic moduli for a rectangular fibers array arrangement in a two phases composite, JOURNAL OF COMPUTATIONAL APPLIED MECHANICS arrow\_drop\_down, 2024, FI=1.5
44. [Marin, M](#) ; [Öchsner, A](#) ; [Vlase, S](#) , On the initial boundary values problem for a mixture of two Cosserat bodies with voids, CONTINUUM MECHANICS AND THERMODYNAMIC, 2024, FI=1.9
45. [Koubaiti, O](#) ; [El Ouadefli, L](#) ; [Elkhalfi, A](#) ; [El Akkad, A](#) ; [Vlase, S](#) ; [Marin, M](#) - Isogeometric Resolution of the Brinkman-Forchheimer-Darcy, JOURNAL OF APPLIED AND COMPUTATIONAL MECHANICS, 2024, FI=2.8
46. [Vlase, S](#) ; [Itu, C](#)- The Properties of Structures with Two Planes of Symmetry, SYMMETRY-BASEL, 2024, FI=2.2
47. Calin Itu, Maria Luminita Scutaru and **Sorin Vlase**, The Quick Determination of a Fibrous Composite's Axial Young's Modulus via the FEM, Applied Science, 2024, FI=2.
48. **Sorin Vlase** and Calin Itu, The Properties of Structures with Two Planes of Symmetry, Symmetry , 2024, FI=2.2
49. [Gouzi, MB](#) ; [El Khalfi, A](#) ; [Vlase, S](#); [Scutaru, ML](#) , X-IGA Used for Orthotropic Material Crack Growth, Materials, 2024, FI=3.1
50. [EL Fakkoussi, S](#); [Koubaiti, O](#) ; [Elkhalfi, A](#) ; [Vlase, S](#); [Marin, M](#), Numerical Analysis of the Cylindrical Shell Pipe with Preformed Holes Subjected to a Compressive Load Using Non-Uniform Rational B-Splines and T-Splines for an Isogeometric Analysis Approach, AXIOMS, 2024, FI=1.9
51. Mariana Domnica Stanciu , Horatiu Draghicescu Teodorescu , **Sorin Vlase** , Mircea Mihalică , Mihaela Cosniță, Adriana Savin - Multiscale assessment of artificial aging treatment of polysaccharides from tonewood species, INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, FI=7.7, 2024, WOS:001280412200001
52. Munyaradzi Innocent Mupona , Ioan Călin Rosca, **Sorin Vlase** - Modeling a Milling Dynamometer as a 3DOF Dynamic System by Stiffness Identification, Applied Science, FI=2.5, 2024
53. [Asztalos, Z](#) ; [Száva, I](#) ; [Scutaru, ML](#) ; [Vlase, S](#) ; [Gálfi, BP](#); [Renáta-Ildikó, S](#); [Popa, G](#) , Modern Dimensional Analysis Model Laws Used to Model Additive Manufacturing Processes, Applied Science , 2024, FI=2.5
54. [Negrean, I](#) ; [Crisan, AV](#) ; [Vlase, S](#) ; [Pascu, RI](#) - D'Alembert-Lagrange Principle in Symmetry of Advanced Dynamics of Systems, SYMMETRY-BASEL, 2024, FI=2.2
55. [Petrici, AV](#) ; [Scutaru, ML](#); [Gheorghe, V](#) ; [Vlase, S](#) - Alternative Solution for Towing Systems Used in the Automotive Industry, APPLIED SCIENCES-BASEL, 2024, FI=2.5
56. [Guendaoui, S](#); [El Ouadefli, L](#); [El Akkad, A](#) ; [Elkhalfi, A](#); [Vlase, S](#); [Scutaru, ML](#) - Comparative Analysis of NURBS and Finite Element Method in Computational Fluid Dynamics Applications: Case Study on NACA 2412 Airfoil Aerodynamics, MATHEMATICS, 2024, FI=2.3
57. [Niranjan, SP](#); [Latha, SRD](#); [Vlase, S](#) - Cost Optimization in Sintering Process on the Basis of Bulk Queueing System with Diverse Services Modes and Vacation, MATHEMATICS arrow\_drop\_down, 2024, FI=2.3
58. [Gouzi, MB](#) ; [EL Fakkoussi, S](#) ; [El Khalfi, A](#); [Vlase, S](#); [Scutaru, ML](#) , Numerical Study of an Automotive Crash Box in Carbon Fiber Reinforced Polymer Material Using Chang Failure Criteria, MATHEMATICS, 2024, FI=2.3

59. [Bratu, P](#) ; [Dragomir, CS](#); [Dobre, D](#) , Assessment of the Compound Damping of a System with Parallely Coupled Anti-Seismic Devices, BUILDINGS, 2024, FI=3.1
60. [Bratu, P](#); [Dobre, D](#) ; [Vasile, O](#); [Dobrescu, CF](#) - The Seismic Behavior of a Base-Isolated Building with Simultaneous Translational and Rotational Motions during an Earthquake, BUILDINGS, 2024, FI=3.1
61. [Bratu, P](#) ; [Murzea, P](#) ; [Tonciu, O](#) ; [Dragan, N](#) ; [Dobrescu, CF](#), Evaluation of the Dynamic Parameters Under Seismic Conditions for a Maxwell Rheological Base Isolation System, BUILDINGS, 2024, FI=3.1
62. **V. Năstăsescu**, S. Marzavan, Functionally Graded Thick-walled Tubes Calculus by Finite Element Method, Heliyon, [Volume 10, Issue 5](#), 15 March 2024, e27309, [www.cell.com/heliyon](http://www.cell.com/heliyon), <https://doi.org/10.1016/j.heliyon.2024.e27309>, pg. 1-26, WOS, Q1
63. Bălan I. G., Zisopol D. G., Ștefan A., **Năstăsescu V.**, Grigore L., , Study of the Injection of Secondary Air into the Intake Manifold of the Gas Turbine to Avoid the Compressor Surging Phenomenon, Engineering, Technology & Applied Science Research, Vol. 14, No. 4, 2024, 13248-13254 DOI: <https://doi.org/10.48084/etasr.6927>, WOS, Q2
64. **V. Năstăsescu**, A. Toma, Radial Displacements in Rotating Disc of Uniform Thickness Made of Functionally Graded Material, Engineering, Technology & Applied Science Research, Vol.14,No. 1, 2024, 12993-12999, DOI: <https://doi.org/1048084/etasr>, 6713, WOS, Q2
65. Mariana Domnica Stanciu, Mihaela Coșnița, Ghiorghe Vasile Gliga, Lidia Gurau, Maria Cristina Timar, Maria Violeta Guiman, Silviu Marian Nastac, **Ioan Călin Roșca**, Voichița Bucur, Florin Dinulică - Tunable Acoustic Properties Using Different Coating Systems on Resonance Spruce Wood, Adv. Mater. Interfaces 2023, 2300781, DOI: 10.1002/admi.202300781 (<https://onlinelibrary.wiley.com/doi/full/10.1002/admi.202300781>)
66. Munyaradzi Innocent Mupona, **Ioan Călin Roșca**, Sorin Vlase - Modeling a Milling Dynamometer as a 3DOF Dynamic System by Stiffness Identification, Appl. Sci. 2024, 14, 4981, <https://doi.org/10.3390/app14124981>
67. Covaciu, F.; Vaida, C.; Gherman, B.; Pîsla, A.; Tucan, P.; **Pîsla, D.** Development of a Virtual Reality-Based Environment for Telerehabilitation. Appl. Sci. 2024, 14, 12022. <https://doi.org/10.3390/app142412022>.
68. Vaida, C.; Rus, G.; Tucan, P.; Machado, J.; Pîsla, A.; Zima, I.; Birlescu, I.; **Pîsla, D.** Enhancing Robotic-Assisted Lower Limb Rehabilitation Using Augmented Reality and Serious Gaming. Appl. Sci. 2024, 14, 12029. <https://doi.org/10.3390/app142412029>
69. Birlescu, I., Tohanean, N., Vaida, C., Gherman, B., Neguran, D., Horsia, A., Condurache, D., **Pîsla, D.** (2024). Modeling and analysis of a parallel robotic system for lower limb rehabilitation with predefined operational workspace. *Mechanism and Machine Theory*, 198, 105674.
70. Leone, S.; Giunta, L.; Rino, V.; Mellace, S.; Sozzi, A.; Lago, F.; Curcio, E.M.; **Pîsla, D.**; Carbone, G. Design of a Wheelchair-Mounted Robotic Arm for Feeding Assistance of Upper-Limb Impaired Patients. Robotics 2024, 13, 38. <https://doi.org/10.3390/robotics13030038>

### Anexa 3.3. Articole în Proceedings:19

1. **Dudescu, M. C.**, Racz, L., & Vilău, C. (2024). Strain analysis in a 3D printed car brake pedal by numerical and experimental methods. In *IOP Conference Series: Materials Science and Engineering* (Vol. 1319, No. 1, p. 012006). IOP Publishing.
2. Cimpoies, V. I., **Dudescu, M. C.** (2024). *Numerical and Experimental Analysis of Quilling-Inspired Metamaterials*. *Procedia Structural Integrity*, 56, 49-57. <https://doi.org/10.1016/j.prostr.2024.02.036>
3. Racz, L., **Dudescu, M. C.** (2024). *Numerical evaluation of the infill pattern upon mechanical proprieties of 3D printed materials*. *Procedia Structural Integrity*, 56, 3-10. <https://doi.org/10.1016/j.prostr.2024.02.030>
4. **Tarnita, D.**, Geonea, I., Dumitru, I., Petcu, A. and Tarnita, D.N., 2024, April. **Experimental Evaluation and Numerical Simulation in a Lower Limb Exoskeleton**. In *IFTToMM International Symposium on Robotics and Mechatronics* (pp. 151-161). Cham: Springer Nature Switzerland.
5. Geonea, I., Racila, L., Dumitru, I., Grigorie, L., Romanescu, A., Rosca, S. and **Tarnita, D.**, 2024, April. **Kinematic and Dynamic Analysis of a New Prototype Exoskeleton for Human Lower Limb Rehabilitation**. In *IFTToMM International Symposium on Robotics and Mechatronics* (pp. 197-205). Cham: Springer Nature Switzerland
6. Geonea, I., Dumitru, N., Dumitru, S., Copilusi, C. and **Tarnita, D.**, 2024, June. **Structural Solutions of Walking Mechanisms Intended to Exoskeleton Robots to Assist Human Gait**. In *IFTToMM Symposium on Mechanism Design for Robotics* (pp. 251-258). Cham: Springer Nature Switzerland.
7. Georgescu, M\*. **Tarniță, D.**, Berceanu, C\*., Geonea, I. and Tarniță, D.N., 2024, May. **Phenomenological Modelling of the Nonlinear Flexion–Extension Movement of Human Lower Limb Joints**. In *International Conference on Robotics in Alpe-Adria Danube Region* (pp. 163-174). Cham: Springer Nature Switzerland.
8. Geonea, I. and **Tarnita, D.**, 2024, May. **Dynamic Analysis of an Exoskeleton Robotic System for Stair Walking Assistance**. In *International Conference on Robotics in Alpe-Adria Danube Region* (pp. 109-117). Cham: Springer Nature Switzerland.
9. **Itu, C**; **Vlase, S**; **Marin, M** ; **Öchsner, A** , Vibration analysis of metallic structure of an innovative dam gate, PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, 2024, FI=2.5
10. **Vlase, S**; **Itu, C**; **Marin, M**; **Öchsner, A** ; **Toderita-Santean, A** - Response of safety belt webbing used for formula student race car in a frontal collision , PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, 2024, FI=2.5
11. **Pisla, D.**, Tucan, P., Tohanean, N., Birlescu, I., Abrudan, C., Horsia, A., Gherman, B., Pisla, A., Machado, J., Vaida, C. (2024, April). Design Improvement of a Parallel Robot for Lower Limb Rehabilitation. In *IFTToMM International Symposium on Robotics and Mechatronics* (pp. 227-237). Cham: Springer Nature Switzerland.
12. Tucan, P., Birlescu, I., Pusca, A., Gherman, B., Jucan, D., Antal, T., Vaida, C., Pisla, A., Chablat, D., **Pisla, D.** (2024, August). A flexible instrument for robotic assisted minimally

- invasive esophagectomy. In European Conference on Mechanism Science (pp. 63-71). Cham: Springer Nature Switzerland.
13. Vaida, C., Gherman, B., Birlescu, I., Tucan, P., Pusca, A., Rus, G., Chablat, D., **Pisla, D.** (2024, June). Kinematic analysis of a parallel robot for minimally invasive surgery. In International Symposium on Advances in Robot Kinematics (pp. 188-195). Cham: Springer Nature Switzerland.
  14. Pusca, A., Andras, I., Cailean, A., Crisan, N., Vaida, C., Radu, C., Gherman, B., **Pisla, D.** (2024). On the development of an innovative surgical parallel robotic system. In International Conference on e-Health and Bioengineering (pp. 173-183). Cham: Springer Nature Switzerland.
  15. Rus, G., Al Hajjar, N., Tucan, P., Zima, I., Vaida, C., Radu, C., Jucan, D., Chablat, D., **Pisla, D.** (2024, June). The control architecture of a spherical robot for Minimally Invasive Surgery. In IFToMM Symposium on Mechanism Design for Robotics (pp. 433-441). Cham: Springer Nature Switzerland.
  16. **Pisla, D.**, Tucan, P., Chablat, D., Al Hajjar, N., Ciocan, A., Pusca, A., Pisla, A., Radu, C., Pop, G., Gherman, B. (2024, May). Accuracy and repeatability of a parallel robot for personalised minimally invasive surgery. In International Conference on Robotics in Alpe-Adria Danube Region (pp. 185-195). Cham: Springer Nature Switzerland.
  17. Rus, G., Al Hajjar, N., Tucan, P., Ciocan, A., Vaida, C., Radu, C., Chablat, D., **Pisla, D.** (2024, May). Mixed-Reality-Guided Teleoperation of a Collaborative Robot for Surgical Procedures. In International Conference on Robotics in Alpe-Adria Danube Region (pp. 233-241). Cham: Springer Nature Switzerland.
  18. V. Mihaly, M. Șușcă, I. Birlescu, S. Sim, **D. Pisla** and P. Dobra, "Robust Feedback Linearization for Serial Robots," 2024 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2024, pp. 1-6, doi: 10.1109/AQTR61889.2024.10554120.
  19. F. Covaciu, B. Gherman, G. Rus, C. Vaida, I. Zima and **D. Pisla**, "Development of a Virtual Reality Simulator for a Robotic-Assisted Laparoscopic Surgery," 2024 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2024, pp. 1-6, doi: 10.1109/AQTR61889.2024.10554158.

### Anexa 3.4. Articole publicate în baze de date indexate BDI: 24

1. Nicolescu, A.-I., **Hadăr, A.**, Baci, F., Stochioiu, C., Ulmeanu, M.-E., “*Dimensional and Weight Characterization of 3D Printed PET Specimens Designed for Compliant Mechanisms*”, *Macromolecular Symposia*, **413(3)**, 2024, DOI 10.1002/masy.202300194
2. Valentin RĂCĂȘAN, Nicolae PANDREA, **Nicolae-Doru STĂNESCU**, DISPLACEMENTS OF A RIGID SOLID HUNGED BY ELASTIC BARS WITH KINEMATIC JOINTS AT THEIR ENDS AND GEOMETRIC DEVIATIONS, Proceedings of the International Congress on Sound and Vibration, 2024, SCOPUS
3. Valentin RĂCĂȘAN, **Nicolae-Doru STĂNESCU**, MINIMIZATION OF THE SMALL DEFORMATIONS FOR A PLANAR SYSTEM OF CONCURENT BARS JOINTED AT THEIR ENDS, Proceedings of the International Congress on Sound and Vibration, 2024, SCOPUS
4. The Effect of the Signal Initial Phase on the Amplitudes of a DFT Spectrum, DG Burtea, N Gillich, **GR Gillich**, *Studia Universitatis Babeș-Bolyai Engineering* 69 (1), 2024, pp. 106-114
5. Determining the optimum severity of damage using model performance analysis methods, SM Randrianarisoa, **GR Gillich**, *Studia Universitatis Babeș-Bolyai Engineering* 69 (1), 2024, pp. 51-63
6. The dynamic behavior of clamped-cantilever pipe in comparative analysis with a double-clamped pipe using finite element modal analysis, Ș Popescu, **GR Gillich**, ZI Praisach, *Annals of 'Constantin Brancusi' University of Targu-Jiu, Engineering Series no. 4*, 21024.
7. Application and Impact of Automation in Crimping Processes, I Dacian, M Tiberiu, **GR Gillich**, *IOP Conference Series: Materials Science and Engineering* 1319 (1), 012001, 2024
8. Crimp Height influence over Resistivity in Wiring Crimping Process, F Dragomir, M Tiberiu, **GR Gillich**, *IOP Conference Series: Materials Science and Engineering* 1319 (1), 012002
9. Estimating Confidence in Damage Position Predictions Made Involving ANN, **Gillich G.-R.**, Tufisi C., Rusu V.C., *Lecture Notes in Mechanical Engineering*, 2024, pp. 1541–1549
10. Identification of the Segments with Changed Density in Inhomogeneous Beams, Aman A.-T., Tufisi C., Manescu T., **Gillich G.-R.**, *Springer Proceedings in Physics* 302, 2024, pp. 327–334
11. Experimental Modal Analysis Involving the Use of Artificial Intelligence to Accurately Evaluate the Natural Frequencies of Engineering Structures, Burtea D.G., Paun R.-L., Gillich N., **Gillich G.-R.**, *Springer Proceedings in Physics* 302, 2024, pp. 335–341
12. Assessment of Weak Segments in Cantilever Beams Using an Artificial Neural Network, Aman A.-T., Tufisi C., Hamat C.O., **Gillich G.-R.**, *Springer Proceedings in Physics* 3002, 2024, pp. 283–292.
13. **Rusu, L.**, 2024. An overview of the renewable energy potential in the coastal environment of the Black Sea. *Journal of Engineering Sciences and Innovation*, 9(2), pp.169-182. [https://jesi.astr.ro/wp-content/uploads/2024/08/6\\_Liliana-Rusu.pdf](https://jesi.astr.ro/wp-content/uploads/2024/08/6_Liliana-Rusu.pdf)
14. Rusu, E., Onea, F., Diaconita, A., **Rusu, L.**, 2024. Assessment of the solar and wind energy potential related to Romanian southern lakes, *Journal of Engineering Sciences and*

*Innovation*, 9(3), pp. 287 – 302. [https://jesi.astr.ro/wp-content/uploads/2024/09/4\\_Liliana-Rusu.pdf](https://jesi.astr.ro/wp-content/uploads/2024/09/4_Liliana-Rusu.pdf)

15. **TARNITA D**, GEORGESCU M\*, MARINACHE G\*, PRUNOIU D\*, TARNITA DN. Study of human ankle joint stability during stairs up and stairs down. **Journal of Engineering Sciences and Innovation**, JESI, 2024;9(1):23-32.
16. Oncescu, T.A\*. Persu, I.C., **Tarniță, D.**, Vilceleanu, M.V. and Biriș, S.Ș., 2024. STUDY OF THE EFFECTS OF VIBRATION TRANSMISSION IN OPERATORS OF ELECTRIC TRACTORS DRIVEN AT CONSTANT SPEED ON DIFFERENT TYPES OF ROADS. *Acta Technica Corviniensis-Bulletin of Engineering*, 17(1), pp.119-122.
17. **Tarnita, D.** and Catana, M\*., 2024. 3D Modelling and numerical simulations of menisci in normal and osteoarthritic human knee joint. **Journal of Engineering Sciences and Innovation**, 9(4), pp.371-382
18. Oncescu, T.L\*., Persu, C., **Tarniță, D.**, Biris, S., Tunsoiu, N. and Fudulache, O.C., 2024. THE MEASUREMENT AND EVALUATION OF THE LARGE AGRICULTURAL TRACTOR OPERATOR'S WHOLE-BODY VIBRATION FOR FOUR TYPES OF LAND AND TWO RUNNING SPEEDS. *Annals of the Faculty of Engineering Hunedoara*, 22(1), pp.129-136.
19. Sorohan S., **Constantinescu D.M.**, Apostol D.A., On the tailoring of radially fgm hollow spheres, cylinders and disks, *The Romanian Journal of Technical Sciences. Applied Mechanics*, vol. 69(2- 3), pp. 167-190, 2024, BDI: IndexCopernicus, MathSciNet (Mathematical Reviews)
20. **V. Nastasescu** , Gh. Bârsan, A New Method for Solving the Integrals of the Mohr-Maxwell Method for Displacements calculus of bent straight bars, *The 30th International Conference The Knowledge-Based Organization, Sibiu, 13-15 June 2024, Conference Proceedings 3 APPLIED TECHNICAL SCIENCES AND ADVANCED MILITARY TECHNOLOGIES*, ISBN 978-973-153-578-4, pg. 114-119, BDI
21. M. C. Badea, A. Hadar , **V. Năstăsescu**, Gh. Barsan , A. Adetu , C. Adetu, *The 30th International Conference The Knowledge-Based Organization, Sibiu, 13-15 June 2024, Conference Proceedings 3 APPLIED TECHNICAL SCIENCES AND ADVANCED MILITARY TECHNOLOGIES*, ISBN 978-973-153-578-4, pg. 29, BDI,
22. **Pisla, D.**, Andras, I., Rus, G., Moldovan, C., Crisan, N., Antal, T., ... & Vaida, C. U-net Network Optimization For 3D Reconstruction in Robotic SILS Pre-Planning Phase. In *International Conference on Advancements of Medicine and Health Care through Technology* (pp. 21-29). Cham: Springer Nature Switzerland, DOI: 10.1007/978-3-031-51120-2\_3.
23. Covaciu, F., Gherman, B., Pisla, A., Vaida, C., Tucan, P., Rus, G., Nadas, I., **Pisla, D.** (2024, June). *The Use of Virtual Reality in Lower-Limb Robotic Rehabilitation*. In *International Conference Innovation in Engineering* (pp. 204-215). Cham: Springer Nature Switzerland.
24. Atanasiu,C.Foreword.Valeriu Jinescu.Critical States,Strengt and Lifetime of the Matter.Nova Science Publishers,Inc,New York,2024

### **Anexa 3.5. Articole publicate în alte categorii, inclusiv buletine științifice**

1. Cormoș, R., Neagoie, C.A., Ciolcă, M., **Hadăr, A.**, “*Demonstrative irregular fatigue cycle counting by rainflow method implementation using a Python program*”, INCAS BULLETIN, **16(3)**, 2024, pp. 19-26, <https://doi.org/10.13111/2066-8201.2024.16.3.22>
2. Atanasiu, C., Sorohan, Șt.. **Buckling of perforated discs**. Journal of Engineering Sciences and Innovation Volume 9, Issue 1 / 2024, pp. 1-14 Technical Sciences Academy of Romania A. Mechanical Engineering [www.jesi.astr.ro](http://www.jesi.astr.ro)