

Anexa B.9.5 Rezultatele activității de cercetare desfășurate de personalul didactic și de cercetare (ultimii 5 ani)

Nr. crt.		Rezultatele activității de cercetare (2020-2025)
1.	Cărți	<ol style="list-style-type: none"> 1. Chitariu Dragoș-Florin, <i>Analiza influenței rigidității dispozitivelor modulare asupra preciziei de prelucrare</i>, Ed. Performantica, Iași, 2018. - 447 pag. ISBN 978-606-685-621-8 2. Chitariu Dragoș-Florin, <i>Construcția și exploatarea dispozitivelor modulare</i>, Ed. Performantica, Iași, 2024, 204 pag. ISBN 978-630-328-105-6 3. Chitariu Dragoș-Florin, Munteanu Adriana, Ciobanu Bogdan , Boca Mihai, Țugui Catalin Andrei, <i>Antreprenariat Inovativ 2</i>, Ed. Performantica, Iași, 2020.160 pag 4. Chitariu Dragoș-Florin, <i>Acționare și Comanda Hidraulică a Mașinilor –unelte</i>, , Ed. Performantica, Iași, 2020. - 225 pag. 5. Dimitrie-Cristian Fodor, Dragoș-Florin Chitariu and Neculai-Eugen Seghedin, <i>Modern Limb Prosthetics: Classifications, Innovations, Capitol Challenges, and the Future of Human Augmentation, Bioinspired Technology and Biomechanics</i>, Ed. IntechOpen, Rijek, 2025, https://doi.org/10.5772/intechopen.115632. 6. Cătălin Gabriel Dumitraș, Mihaiță Horodincă, Adriana Munteanu, Florin Chifan, Dragoș-Florin Chitariu and George-Gabriel Chiriac, <i>Capitol Vibration in Metal Cutting Process</i>, Ed. IntechOpen, Rijek, 2025, https://doi.org/10.5772/intechopen.1009581 7. C.G.Dumitraș, V.Ghizdovat, C.M.Rusu, E.Nazaretian, Fl. Nedeff, V.Nedeff, I. Ioja, M.Agop <i>Dynamical Systems - Latest Developments and Applications</i>, Edited by Mohammad Shamsuzzoha, chapter <i>Holographic-Type Behaviours in Complex Systems Dynamics from a Multifractal Perspective of Motion</i>, IntechOpen Ltd., London, United Kingdom, 2025, ISBN 978-1-83634-368-4 8. C.G. Dumitraș, M.Horodincă, A.Munteanu, Fl.Chifan, D.Fl.Chitariu, G.G.Chiriac, <i>Vibration Engineering - Analysis, Control and Utilization</i>, Edited by Ming Yuan, chapter <i>Vibration in Metal Cutting Process</i> IntechOpen Ltd., London, United Kingdom, 2025, ISBN 978-1-83634-806-1 9. M. Horodincă, Fl. Chifan, E. Paduraru, C.G. Dumitraș, A. Munteanu, D.-Fl. Chitariu, <i>Cutting Processes for Materials in Manufacturing</i>, edited by JianWeng, Kejia Zhuang, Dongdong Xu, Benkai Li, Hongguang Liu, GangWang, chapter <i>A Study of 2D Roughness Periodical Profiles on a Flat Surface Generated by Milling with a Ball Nose End Mill</i>, MDPI AG, Basel, Switzerland, 2025 ISBN 978-3-7258-4077-9 10.C. Dumitraș, Enachi M., <i>Sisteme de scule modulate - o nouă abordare</i>, Editura Performantica, Iași, 2021, ISBN 978-606-685-825-0, 263 pag. (41 rânduri/pag) 11.Munteanu Adriana, Cioata Florentin, <i>Sisteme de tolerante in constructia de masini</i>, Editura Performantica, 281 pag, ISBN 978-630-328-145-2, 2025 12. Munteanu Adriana, <i>Calitatea in sisteme de fabricație</i>, Editura Performantica, 241 pag. , ISBN 978-630-328-146-9, 2025 13.Slătineanu, L., Nagit Gh., Dodun O., Coteață, M., Munteanu A., Besliu-Bancescu I., Gherman L, Hrituc A., Chimesta F., Goncales-Coelho A., Teixeira J.P, San Juan M., Santo L., Santos F. <i>Non-traditional Manufacturing Processes</i> Editura Tehnica-Info, Chisinau, 2020, ISBN 978-9975-63-454-0, 406 pag. 14.SEGHEDIN N. (ed.), <i>Gheorghe Asachi-Un spirit enciclopedic</i>. Ed. Universității Tehnice „Gheorghe Asachi” din Iași, 2023, 500 pag., ISBN 978-973-621-533-9.

2.	Reviste/ Jurnale ISI	<ol style="list-style-type: none"> 1. V. Ghizdovat, E. Nazaretian, C. G. Dumitras, M. Agop, C. Placinta, C. Buzea, C. M. Rusu, D. Vasincu, Z. Borsos, <i>Correlative Dynamics of Complex Systems: A Multifractal Perspective of Motion Based on SL (2R) Symmetry</i>, Symmetry, 17(1), 27, 2024, DOI: 10.3390/sym17010027 2. M. Sha'at, M. Ignat, L. Sacarescu, A. Fl. Spac, Al. Barsan, V. Ghizdovat, E. Nazaretian, C. G. Dumitras, M. Agop, C. M. Rusu, L. Ochiuz, <i>Multifractal Analysis and Experimental Evaluation of MCM-48 Mesoporous Silica as a Drug Delivery System for Metformin Hydrochloride</i>, Biomedicines, 12(12), 2838, 2024, DOI: 10.3390/biomedicines12122838 3. D.Fl. CHITARIU, T.M. AGACHE, C.G. DUMITRAS, M. HORODINĂ, Fl.D. EDUTANU, George-Gabriel CHIRIAC, <i>Experimental Research On Positioning Accuracy Of Educational Robots</i>, ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, And ENGINEERING, vol. 67, Issue 2s, 595-602, 2024, 4. D.-Fl. Chitariu, M. Horodincea, C.-Gh. Mihai, N.-E. Bumbu, C. G. Dumitras, N.-E. Seghedin, Fl.-D. Edutanu, <i>Condition Monitoring of a Three-Phase AC Asynchronous Motor Based on the Analysis of the Instantaneous Active Electrical Power in No-Load Tests</i>, Appl. Sci. , 14(14), 6124, 2024; https://doi.org/10.3390/app14146124 5. D.-Fl. Chitariu, M. Ilhan, C.G. Dumitras, Fl.-D. Edutanu, F.-V. Hrib, M. Horodincea, <i>Research On Measurement Of Elastic Roller Deformations In Roller Bearings By Image Correlation Method</i>, ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, And ENGINEERING, vol. 67, Issue 1s, 267-274, 2024, 6. M. Horodincea, Fl. Chifan, E. Paduraru, C. G. Dumitras, A. Munteanu, D.-Fl. Chitariu, <i>A Study of 2D Roughness Periodical Profiles on a Flat Surface Generated by Milling with a Ball Nose End Mill</i>, Materials , 17(6), 1425, 2024; https://doi.org/10.3390/ma17061425 7. St Agop, M-Al. Paun, C. Bejinariu, T.-C. Petrescu, C. M. Rusu, A. M. Cazac, C. G. Dumitras, A. C. Hanganu, V.-Al. Paun, M. Agop, V.-P. Paun, <i>Constitutive Material Laws In The Multifractal Theory Of Motion (Part II)</i>, UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, vol 86, Issue 1, pp 137-150, 2024, ISSN 1223-7027 8. G-G Chiriac, C G Dumitras, D Fl Chitariu, P Vizureanu, A V Sandu, <i>Influence of Gravity on Passively Cooled Heat Sink Using Experimental Data and Finite Element Analysis</i>, Processes, , 11(3), 896, 2023; https://doi.org/10.3390/pr11030896 (revista cotatea ISI - factor de impact: 3,352- zona galbena) 9. M. Horodincea, N-E Bumbu, D-Fl. Chitariu, A. Munteanu, C.G. Dumitras, Fl. Negoescu, C-Gh. Mihai, <i>On The Behaviour Of An AC Induction Motor As Sensor For Condition Monitoring Of Driven Rotary Machines</i>, Sensors, 23(1), 488, 2023; https://doi.org/10.3390/s23010488(revista cotatea ISI - factor de impact: 3,847- zona galbena) 10. Șt. Agop, M-Al. Paun, C.G Dumitras, M. Frasila, V-Al. Paun, M. Agop, V-P. Paun, G. Ștefan, <i>On A Special Symmetry In The Dynamics Of Complex Systems In A Holographic-Type Perspective</i>, U.P.B. Sci. Bull., Series A, Vol. 85, Iss. 1, pp. 178-188, 2023, ISSN 1223-7027 11. M. Frasila, M.-Al. Paun, C.G. Dumitras, V. Ghizdovat, C. M. Rusu, V.-Al. Paun, M. Agop, V.-P. Paun, <i>Some Physical Implications Of Absolute Geometries In The Description Of Complex Systems Dynamics</i>, U.P.B. Sci. Bull., Series A, Vol. 85, Iss. 2, p. 125-138, 2023, ISSN 1223-7027 12. E. Paduraru, C.G.Dumitras, D. Fl. Chitariu, M. Horodincea, Fl. Chifan, <i>Research on Additive Technique Parameter Optimization for Robotic Gripper Construction</i>, Machines, 11(6), 621, (2023), doi.org/10.3390/machines11060621(revista cotatea ISI - factor de impact: 2,6- zona galbena) 13. B Rădulescu, Am Mihalache, Mc Rădulescu, L Slătineanu, A Hrițuc, O Dodun, G Nagiț, M Coteață, <i>Selection of A Method For Machining An Archimedean Spiral Groove</i> Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering Vol. 65, Issue Special I, February, 2022 14. MI Ripanu, AM Mihalache, L Slatineanu, M Mares, L Andrusca, A Hrituc, O Dodun, G Nagit, M Coteata, <i>B Radulescu Tensile Strength of Threaded Rods Made by 3D Printing of Polymeric Material</i> https://doi.org/10.37358/Mat.Plast.1964 ISSN 2668-8220 ISI SCOPUS
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16. I. Craciun, T. Agache, C. G. Dumitras, *Analysis and economic strategies regarding the reduction of preventive maintenance costs*, Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, and Engineering, Vol 65, No 4S, (2022), (revista cotate ISI - factor de impact: 0,07- zona gri)
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