



ASTR Filiala Iași

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RAPORT DE ACTIVITATE pentru anul 2023

I. Activități specifice în cadrul filialei

I.A. Participarea cu lucrări din partea membrilor filialei pentru manifestări și publicații ale ASTR

1. **Ioan Doroftei**, Claudia-Ana Morar, Marius-Gheorghe Hagan, Design and Kinematic Modeling of a Mobile Manipulator with Hybrid Locomotion for Agricultural Applications, Conferința Internațională *Zilele Academiei de Științe Tehnice din România – Z ASTR 2023*, 5 – 6 octombrie 2023, Brașov, Romania.
2. **Ioan Doroftei**, Ovidiu-Vasile Crivoi, Ioan-Alexandru Doroftei, Theoretical Aspects of Internal Gears with Small Difference in Numbers of Teeth and their Applications to Cycloidal Gear Mechanisms, Conferința Internațională *Zilele Academiei de Științe Tehnice din România – Z ASTR 2023*, 5 – 6 octombrie 2023, Brașov, Romania.
3. **Lazăr C.** Controlul *model free* al mașinii de inducție bazat pe conceptul de omotopie pentru liniarizare prin feedback, *Conferința Zilele ASTR*, Brașov, 5-6 Octombrie 2023.
4. **Munteanu C.**, Chicet D.L., Istrate B., Stefan A., Vida-Simiti I., Influence of deposition technology on the morphology of chromium carbide-based powder coatings, *Conferința Zilele ASTR*, Brașov, 5-6 Octombrie 2023.
5. Simona Nicoleta Mazurchevici, Alina Marguta, **Dumitru Nedelcu**, Enhancing the characteristics of bio-based polymers coated with ceramic particles, *Conferința Zilele ASTR*, Brașov, 5-6 Octombrie 2023.
6. Alina Marguta, Simona-Nicoleta Mazurchevici, **Dumitru Nedelcu**, (2023), Coating of a lignin-based polymer with ceramic micropowders, *Journal of Engineering Sciences and Innovation*, 8(2), 101-112.
7. **Păstrăvanu, O.** Matcovschi, M-H. **Voicu, M.**, Fundamente matematice ale aproximărilor de tip rețea neuronală Studii de caz ilustrative pentru teorema lui Cybenko, *Conferința Zilele ASTR*, Brașov, 5-6 Octombrie 2023

I.B. Participarea în Comitete de program, sau Colective editoriale ale manifestărilor, respectiv publicațiilor ASTR

- **A. Dima** - membru în Comitetul editorial *Journal of Engineering Sciences and Innovation* (JESI) - Chemical Engineering, Materials Science and Engineering, Natural Resources
- **D. Nedelcu** - Comitetul științific al Conferinței ZASTR, 5-6 octombrie 2023, Brașov, România
- **M. Voicu** - membru în Comitetul editorial *Journal of Engineering Sciences and Innovation* (JESI) - Electrotechnics, Electronics, Energetics, Automation

I.C. Organizarea și co-organizarea de manifestări științifice (sub egida ASTR)

1. La 30 de ani de la inițierea seriei (în 1993), EUROLAN-2023 a fost cea de a 16a ediție biennială, cu tema: *Architectures, Resources, Evaluation and Implications of Generative AI*, școală de toamnă organizată între 10-17 septembrie 2023, la Bălți, în Republica Moldova și online (<https://eurolan.info.uaic.ro/2023/>). –**D. Cristea** co-organizator
2. Cea de a 18-a ediție a ciclului de conferințe internaționale anuale *Linguistic Resources and Tools for Natural Language Processing*, a avut loc în acest an la Universitatea Transilvania din Brașov și online, în zilele de 12 și 13 decembrie (<https://profs.info.uaic.ro/~consilr/2023/>) –**D. Cristea** co-organizator
3. În tandem cu conferința 2. am organizat o întrunire a Consorțiului de Informatizare pentru Limba Romană în data de 11 decembrie 2023, la Universitatea Transilvania Brașov **D. Cristea** co-organizator.
4. 25th *International Symposium on Measurement and Control in Robotics*, ISMCR 2023, September 21 – 23, 2023, Iasi, Romania – **Ioan Doroftei** Symposium Chair.
5. Conferința Internațională ModTech2023, 14-17 iunie 2023, Hotel Continental Forum, București, România Organizatori: Asociația Profesională ModTech, Academia de Științe Tehnice din România, Universitatea Politehnica din București- **Ioan Doroftei, Dumitru Nedelcu** - Membri Organizing Committee, Scientific Committee.
6. A 27-a ediție a Conferinței Internaționale *System Theory, Control and Computing*, ICSTCC 2023, October, Timișoara (**V. Manta**, - vicepresedinte, **O. Păstrăvanu, M. Voicu** – co-organizatori) – volum de lucrări indexat ISI Web of Science, IEEE Xplore.
7. Workshop-ul ”*Abordări orientate către om pentru Inteligență Artificială de încredere*” organizat în cadrul conferinței Smart Diaspora 2023, Timisoara.**V. Manta** – coorganizator. <https://www.diaspora-stiintifica.ro/workshopuri/abordari-orientate-catre-om-pentru-inteligenta-artificiala-de-incredere>
8. International Conference on Innovative Research ICIR-EUROINVENT, Mai 11-12, 2023, Iasi, Romania (<http://www.euroinvent.org/partners/>). **Vizureanu P.** – Chairman și organizator.

II. Cercetare (publicații, brevete, proiecte)

II.A. Cărți și capitole în cărți

1. **Condurache, D.**, Cojocari, M., Popa, I. (2023). “Hypercomplex Dual Lie Nilpotent Algebras and Higher-Order Kinematics of Rigid Body”, *Mechanisms and Machine Science*, vol 127. Springer, Cham. https://doi.org/10.1007/978-3-031-25655-4_10
2. **Condurache, D.** (2023). “Analysis of Higher- Order Kinematics on Multibody Systems with Nilpotent Algebra.” *Mechanisms and Machine Science*, vol 135. Springer, Cham. https://doi.org/10.1007/978-3-031-32606-6_35

3. **Condurache, D.**, (2023). "Product of Exponential Formula of Multidual Quaternions and Higher-Order Kinematics," 2023 9th International Conference on Control, Decision, and Information Technologies (CoDIT), Rome, Italy, 2023, pp. 537-542, [10.1109/CoDIT58514.2023.10284240](https://doi.org/10.1109/CoDIT58514.2023.10284240).
4. **Condurache, D.**, Sofan, M., Pisla, D. (2023). "Representations of Higher-Order Kinematics with Hypercomplex Commutative Nilpotent Algebra". In: Okada, M. (eds) *Advances in Mechanism and Machine Science*. IFToMM WC 2023. Mechanisms and Machine Science, vol 147. Springer, Cham. https://doi.org/10.1007/978-3-031-45705-0_53
5. A. Vasilescu, **D. Cristea**, D. Tufiş: *Proceedings of the 18th International Conference Linguistic Resources and Tools for Natural Language Processing*, Braşov and online, 11-12 December 2023 (to be published in 2024)
6. **Ioan Doroftei**, Balint Kiss, Yvan Baudoin, Zafar Taqvi, Simone Keller Fuchter (Eds), *25th International Symposium on Measurements and Control in Robotics*, Proceedings of ISMCR 2023, Mechanisms and Machine Science series, volume 154, Springer Cham, ISBN 978-3-031-51084-7.
7. **Ioan Doroftei**, Mircea Nitulescu, Doina Pisla, Erwin-Christian Lovasz (Eds), *Proceedings of SYROM 2023 & ROBOTICS 2023*, 13th IFToMM International Symposium on Science of Mechanisms and Machines & XXV International Conference on Robotics, Mechanisms and Machine Science series, volume 127, Springer Cham, 978-3-031-25655-4.
8. **Ioan Doroftei**, Claudia-Ana Morar, Marius-Gheorghe Hagan, Design of a Hybrid Locomotion Mobile Manipulator for Agricultural Application, in I. Doroftei, B. Kiss, Y. Baudoin, Z. Taqvi, S. Keller Fuchter (Eds), *25th International Symposium on Measurements and Control in Robotics*, Proceedings of ISMCR 2023, Mechanisms and Machine Science series, volume 154, Springer Cham, ISBN 978-3-031-51084-7.
9. Cristina-Magda Cazacu, **Ioan Doroftei**, Preliminary Functionality Tests of an Improved Ankle Rehabilitation Device, in I. Doroftei, B. Kiss, Y. Baudoin, Z. Taqvi, S. Keller Fuchter (Eds), *25th International Symposium on Measurements and Control in Robotics*, Proceedings of ISMCR 2023, Mechanisms and Machine Science series, volume 154, Springer Cham, ISBN 978-3-031-51084-7.
10. Florentin Buium, **Ioan Doroftei**, Workspace Analysis of a 3 RRR Planar Mechanism, in I. Doroftei, B. Kiss, Y. Baudoin, Z. Taqvi, S. Keller Fuchter (Eds), *25th International Symposium on Measurements and Control in Robotics*, Proceedings of ISMCR 2023, Mechanisms and Machine Science series, volume 154, Springer Cham, ISBN 978-3-031-51084-7.
11. Adrian Petru Teodoriu, **Ioan Doroftei**, Bogdan Pricop, Leandru-Gheorghe Bujoreanu, Study of the Load-Response Effect of NiTi-Based Thermal Actuators. Application to a Robotic Gripper, in I. Doroftei, B. Kiss, Y. Baudoin, Z. Taqvi, S. Keller Fuchter (Eds), *25th International Symposium on Measurements and Control in Robotics*, Proceedings of ISMCR 2023, Mechanisms and Machine Science series, volume 154, Springer Cham, ISBN 978-3-031-51084-7.
12. **Ioan Doroftei**, and Cristina-Magda Cazacu. "Developments in the Design of an Ankle Rehabilitation Platform." In *International Workshop on Medical and Service Robots*, pp. 179-187. Cham: Springer Nature Switzerland, 2023.
13. M. Fira, **L. Goras**, "Achiziția comprimată cu aplicații în domeniul semnalelor biomedicale", carte la Editura PIM, 2023, ISBN:978-606-13-7454-0
14. Justina Georgiana Motas, **Dumitru Nedelcu**, Fabrizio Quadrini, (2023), "Coating biodegradable materilas with silver nanoparticles", ISBN: 1-5275-5385-X, ISBN13: 978-1-5275-5385-9, Cambridge Scholars Publishing, UK

15. **Valentin I. Popa**, “Mi-am facut ordine în gânduri”, vol II,317 p. 2023, Ed. Symposium, Iasi, ISBN 978-606-8821-11-5
16. V. Lupășteanu, D. Ungureanu, **N. Țăranu**, R. Lupășteanu, „Structural behaviour of CFRP-to-steel bonded joints in Techniques and Innovation in Engineering Research” Vol. 7, Print ISBN: 978-81-959996-9-9, eBook ISBN: 978-81-959996-8-2, Editura BP International, London, UK, 2023
17. D.A. Ghiga, **N. Țăranu**, D. Ungureanu, D.N. Isopescu, C. Onuțu, „Tehnici moderne de consolidare a structurilor din zidărie”, ISBN 978-973-621-518-6, Editura Politehniun, Iași 2023
18. **Mihail Voicu, Octavian Pastravanu**, “Non-recursive behavioural models in control analysis and design” (pages 184), Cambridge Scholars Publishing, ISBN: 1-5275-4296-3, www.cambridgescholars.com/product/978-1-5275-4296-9
19. **Petrica Vizureanu** - editor, Special Issue Future Trends in Advanced Materials and Processes, Materials, ISBN 978-3-0365-6470-8, Published: February 2023, Pages: 352.
20. **Petrica Vizureanu** - editor, Latest Research on Energy Recovery, Intech Open, 2023, ISBN 978-1-80355-610-9.
21. **Petrica Vizureanu**, Mohd Mustafa Al Bakri Abdullah, Rafiza Abdul Razak, Dumitru Doru Burduhos-Nergis, Liew Yun-Ming, Andrei Victor Sandu, Geopolymers: Properties and Applications 1st Edition, Publisher: CRC Press; 1st edition (November 22, 2023), Language: English, Hardcover: 152 pages, ISBN-10: 1032486716, ISBN-13: 978-1032486710.
22. Andrei Victor Sandu, **Petrica Vizureanu**, Mohd Mustafa Al Bakri Abdullah, Marcin Nabialek, Che Mohd Ruzaidi Ghazali, Ion Sandu, Selected Papers from ICIR EUROINVENT – 2023, Proceedings of the International Conference on Innovative Research 2023, Part of the book series: Springer Proceedings in Materials (SPM, volume 38).

II.B. Articole în reviste

1. **D.F. Chiper**, A.Cracan, “An Efficient Algorithm and Architecture for the VLSI Implementation of Integer DCT That Allows an Efficient Incorporation of the Hardware Security with a Low Overhead,” *Applied Sciences, Appl. Sci.* 2023, **13**(12), 6927; <https://doi.org/10.3390/app13126927> , IF:2.7-Q2 ISI
2. **D.F. Chiper**, A.Cracan,” New Systolic Array Algorithms and VLSI Architectures for 1-D MDST,” *Sensors*, 2023, **23**(13), 6220; <https://doi.org/10.3390/s23136220>, IF:3.9-Q2 ISI
3. A. Aliout, N. Kouadria, **D.F. Chiper**,”x-DTT: A package for calculating real and Integer Discrete Tchebichef Transform kernels based on orthogonal polynomials,” *SoftwareX*, Volume 23, July 2023, *IF:3.4-Q2* ISI
4. **D.F. Chiper**,” An Improved VLSI Algorithm for an Efficient VLSI Implementation of a Type IV DCT That Allows an Efficient Incorporation of Hardware Security with a Low Overhead,” *Electronics* 2023, **12**(1), 243; <https://doi.org/10.3390/electronics12010243>, IF:2.9-Q2 ISI
5. **D.F. Chiper**, A.Cracan, ” An Area-Efficient Unified VLSI Architecture for Type IV DCT/DST Having an Efficient Hardware Security with Low Overheads,” *Electronics* 2023, **12**(21), 4471; IF:2.9-Q2 ISI
6. **D.F. Chiper**, C. Paleologu,” Efficient Algorithms and Architectures for DSP Applications,” *Electronics* 2023, **12**(4), 1012; <https://doi.org/10.3390/electronics12041012>, IF:2.9-Q2 ISI
7. R.Matei, **D.F. Chiper**,” Analytic Design Technique for 2D FIR Circular Filter Banks and Their Efficient Implementation Using Polyphase Approach,” *Sensors* **2023**, **23**(24), 9851; <https://doi.org/10.3390/s23249851> - 15 Dec 2023,IF:3,9-Q2 ISI

8. **Condurache, D.** "A Full-Body Relative Orbital Motion of Spacecraft Using Dual Tensor Algebra and Dual Quaternions", *Mathematics* **2023**, *11*(6), 1366; <https://doi.org/10.3390/math11061366> ISI
9. **Condurache, D.**, Popa, I. "A Minimal Parameterization of Rigid Body Displacement and Motion Using a Higher-Order Cayley Map by Dual Quaternions", *Symmetry* **2023**, *15*(11), 2011; <https://doi.org/10.3390/sym15112011> ISI
10. Cojocari Mihail., **Condurache Daniel.** "High-Order Derivatives of Serial Manipulator Jacobians Using Multidual Differentiation Transform ", *BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI*. Secția Matematica. Mecanică Teoretică. Fizică. 2023;69(1-4): 7-20. <https://doi.org/10.2478/bipmf-2023-0001> BDI
11. **Condurache, Daniel**, Cojocari, Mihail and Popa, Ionuț. "Hypercomplex Quaternions and Higher-Order Analysis of Spatial Kinematic Chains" *BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI*. Secția Matematica. Mecanică Teoretică. Fizică, vol.69, no.1-4, 2023, pp.21-34. <https://doi.org/10.2478/bipmf-2023-0002> BDI
12. **D. Cristea**, N. Cleju, P. Rebeja, G. Haja, E. Coman, A. Vasilescu, C. Marinescu, A. Dascălu. Bringing the Old Writings Closer to Us: Deep Learning and Symbolic Methods in Deciphering Old Cyrillic Romanian Documents, in *Memoirs of the Scientific Sections of the Romanian Academy*, series IV, tome XLVI, Publishing House of the Romanian Academy, Bucharest, p.87-127, 2023.
13. **D. Cristea**, I.Pistol, D. Gîfu. Connecting the Content of Books to the Web and the Real World. In: Gelbukh, A. (eds) *Computational Linguistics and Intelligent Text Processing, CICLing 2018*, LNCS (Lecture Notes in Computer Science), Vol. 13396, 2023, Springer-Verlag Berlin Heidelberg, pp. 50–61, Online ISBN: 978-3-031-23793-5, Print ISBN: 978-3-031-23792-8, DOI: 110.1007/978-3-031-23793-5_5
14. **D. Cristea**, D. Tufiş, G. Haja, I. Tamba. Digitalization of cultures. Preparations for the adoption of a strategy for the Romanian language. In *Proceedings of the 18th International Conference Linguistic Resources and Tools for Natural Language Processing*, Braşov and online, 11-12 December 2023 (to be published).
15. **D. Cristea**. Tehnologii informatice abordând limbajul, în Natalia Hariton (coord.): volumul conferinței „Filologia modernă: realizări și perspective în context European, ediția a XVII-a, Chişinău, 5-6 octombrie 2023, Institutul de Filologie Română „Bogdan Petriceicu-Hasdeu”, Universitatea de Stat din Moldova, online la https://conferinte.stiu.md/sites/default/files/evenimente/Filologia%20moderna%CC%86%2C%20edit%CC%A6ia%20a%20XVII-a%2C%202023_1.pdf.
16. **Ioan Doroftei**, Cristina-Magda Cazacu, and Stelian Alaci, Design and Experimental Testing of an Ankle Rehabilitation Robot, In *Actuators*, vol. 12, no. 6, p. 238. MDPI, 2023 (Impact Factor = 2.6, Q2).
17. Stelian Alaci, **Ioan Doroftei**, Florina-Carmen Ciornei, Ionut-Cristian Romanu, Ioan-Alexandru Doroftei, and Mariana-Catalina Ciornei. "A New RP1PR Type Coupling for Shafts with Crossed Axes." *Mathematics* *11*, no. 9 (2023): p. 2025. (Impact Factor = 2.4, Q1).
18. Stelian Alaci, **Ioan Doroftei**, Florina-Carmen Ciornei, Ionut-Cristian Romanu, Toma-Marian Ciocirlan, and Mariana-Catalina Ciornei. "Proposed Shaft Coupling Based on RPRRR Mechanism: Positional Analysis and Consequences." *Axioms* *12*, no. 7 (2023): p. 707 (Impact Factor = 2, Q2).
19. Stelian Alaci, Florina-Carmen Ciornei, Ionut-Cristian Romanu, **Ioan Doroftei**, Carmen Bujoreanu, and Ioan Tamaşag. "A New Direct and Inexpensive Method and the Associated Device for the Inspection of Spur Gears." *Machines* *11*, no. 12 (2023): p. 1046, (Impact Factor = 2.6, Q2).
20. Ionel Stareţu, **Ioan Doroftei**, "Energia fosilă, sursă de prosperitate și conflicte în secolele XX și XXI." *Buletinul AGIR* *28*, no. 1 (2023).

21. **Ioan Doroftei**, Claudia-Ana Morar, and Marius-Gheorghe Hagan, “Design and Kinematic Modelling of a Mobile Manipulator with Hybrid Locomotion for Agricultural Applications”. *Journal of Engineering Sciences and Innovation*, volume 8, issue 4, 2023, pp. 347 - 362.
22. Adrian Petru Teodoriu, **Ioan Doroftei** and Leandru Gheorghe Bujoreanu, Experimental Study of Shape Memory Effect in a NiTi Alloy Wire Subjected to Stretching with Variable Loads, *Bulletin of the Polytechnic Institute of Iasi, Section MATERIALS SCIENCE AND ENGINEERING*, Volume 69 (73), Number 1-4 2023, pp. 153 – 164.
23. Baciu A., **Lazar C.**, Iterative Feedback Tuning of Model-Free Intelligent PID Controllers, *Actuators*, 12 (2), 2023, article no. 56. (DOI: 10.3390/act12020056), IF=2.6, Q2
24. Costin M., **Lazar C.**, Field-Oriented Predictive Control Structure for Synchronous Reluctance Motors, *Machines*, 11 (7), 2023, article no. 682. (DOI:10.3390/machines11070682), IF=2.6, Q3.
25. 1. Lupu F.C., **Munteanu C.**, Sachelarie A.C., Arsenoia V.N., Istrate B., Improving the Usage Properties of Steel Using Cold Spray Deposition: A Review, (2023) *Crystals*, 13 (2), art. no. 245, DOI: 10.3390/cryst13020245, Impact Factor: 2.7, Q2.
26. 2. Luțcanu M., **Munteanu C.**, Kicsi G., Roman A.-M., Croitoru C.G., Prisecariu B.A., Cazacu M.M., Știrbu I., Chicet D.L., Cimpoesu N., Analysis of water jet cutting of metal-ceramic elements made through atmospheric plasma spraying technique, (2023) *Materials Today: Proceedings*, 72, pp. 550 – 553, DOI: 10.1016/j.matpr.2022.10.037, Impact Factor: 0, Q4.
27. 3. Vâlcea A.E., Mariș I., Negrea A.D., Cimpoesu N., Gârbea G., Grecu D., Moga S.G., Istrate B., Finta F.N., Rizea A.D., Anghel D.-C., **Munteanu C.**, Petrescu M.I., Abrudeanu M., “Interdisciplinary Research on Medieval Fresco Subjected to Degradation Processes in the Corbii de Piatră Cave Church”, (2023) *Materials*, 16 (15), art. no. 5257, DOI: 10.3390/ma16155257, Impact Factor: 3.4, Q2
28. 4. Epure C., **Munteanu C.**, Istrate B., Harja M., Buium F., “Applications of Recycled and Crushed Glass (RCG) as a Substitute for Natural Materials in Various Fields—A Review”, (2023) *Materials*, 16 (17), art. no. 5957, DOI: 10.3390/ma16175957, Impact Factor: 3.4, Q2.
29. 5. Cristisor D., Chicet D.L., Paleu C.C., Stescu C., **Munteanu C.**, “Substrate texture influence on the dry sliding wear behaviour of co-based plasma spray coating”, (2023) *Archives of Metallurgy and Materials*, 68 (3), pp. 1061 – 1067, DOI: 10.24425/amm.2023.145476, Impact Factor: 0.633, Q4.
30. 6. Vâlcea A.E., Grecu D., Mariș I., Negrea A.D., Cimpoesu N., Giugea D., Istrate B., **Munteanu C.**, Moga S.G., Anghel D.-C., Rizea A.D., Petrescu M.I., Abrudeanu M., “The Characterization of a Fragment of a Medieval Fresco from Corbii de Piatră Cave Church”, (2023) *Applied Sciences* (Switzerland), 13 (8), art. no. 4933, DOI: 10.3390/app13084933, Impact Factor: 2.7, Q2.
31. 7. Luțcanu M., Cimpoesu R., Abrudeanu M., **Munteanu C.**, Moga S.G., Coteata M., Zegan G., Benchea M., Cimpoesu N., Murariu A.M., “Mechanical Properties and Thermal Shock Behavior of Al₂O₃-YSZ Ceramic Layers Obtained by Atmospheric Plasma Spraying”, (2023) *Crystals*, 13 (4), art. no. 614, DOI: 10.3390/cryst13040614, Impact Factor: 2.7, Q2.
32. 8. Istrate B., **Munteanu C.**, Bălțatu M.-S., Cimpoesu R., Ioanid N., “Microstructural and Electrochemical Influence of Zn in MgCaZn Biodegradable Alloys”, (2023) *Materials*, 16 (6), art. no. 2487, DOI: 10.3390/ma16062487, Impact Factor: 3.4, Q2
33. 9. Morăraș C.I., Goanță V., Husaru D., Istrate B., Bârsănescu P.D., **Munteanu C.**, “Analysis of the Effect of Fiber Orientation on Mechanical and Elastic Characteristics

- at Axial Stresses of GFRP Used in Wind Turbine Blades”, (2023) *Polymers*, 15 (4), art. no. 861, DOI: 10.3390/polym15040861, Impact Factor: 5, Q1.
34. Simona-Nicoleta Mazurchevici, Oktawian Bialas, Teodor Daniel Mindru, Marcin Adamiak, **Dumitru Nedelcu**, “Characterization of Arboblend V2 Nature Textured Surfaces obtained by Injection Molding”, *Polymers*, 2023, 15(2), 406, 1-17, <https://doi.org/10.3390/polym15020406>
 35. Ungureanu, E.; Fortună, M.E.; Țopa, D.C.; Brezuleanu, C.O.; Ungureanu, V.I.; Chiruță, C.; Rotaru, R.; Tofanica, B.M.; **Popa, V.I.**; Jităreanu, D.C., „Comparison Adsorption of Cd (II) onto Lignin and Polysaccharide-Based Polymers”, *Polymers* 2023, 15, 3794. <https://doi.org/10.3390/polym15183794>
 36. Ungureanu E., Chelariu E.-L., Ungureanu O.C., Fortuna M. E, **Popa V.I.** and Jitareanu C. D. „Thermodynamic studies on Cd (II) retention from aqueous medium on Sarkanda grass lignin nanoparticles”, *Lucrări științifice seria horticultură*, 66 (1) / 2023, USV Iași
 37. **Valentin I. Popa**, “Cellulose Chemistry and Technology: Advances in the chemistry, physics and technology of polysaccharides and lignin”, Web page: (www.cellulosechemtechnol.ro) [ISSN 2457-9459 (Online), ISSN 0576-9787 (Print)] in *Noesis*, Tome III(XLII), No. 1, 93-96 (2023), [Noesis_1_2023.pdf \(crifst.ro\)](#)
 38. Spiridon IA, Ungureanu D, **Țăranu N**, Onuțu C, Isopescu DN, Șerbănoiu AA (2023) „Structural assessment and strengthening of a historic masonry orthodox church”, *Buildings*, 13, 3, 835, DOI10.3390/buildings13030835 (IF: 3,8)
 39. Ungureanu D, Onuțu C, Isopescu DN, **Țăranu N**, Zghibarcea SV, Spiridon IA, Polcovnicu RA (2023) „A Novel Approach for 3D Printing Fiber-Reinforced Mortars”, *Materials*, 16, 3, 4609, DOI10.3390/ma16134609 (IF: 3,4)
 40. Ungureanu, D.; Onuțu, C.; **Țăranu, N.**; Vornicu, N.; Zghibarcea, Ș.V.; Ghiga, D.A.; Spiridon, I.A. „Microstructure and Mechanical Properties of Cost-Efficient 3D Printed Concrete Reinforced with Polypropylene Fibers”. *Buildings* 2023, 13, 2813. <https://doi.org/10.3390/buildings13112813> (IF: 3,8)
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II.C. Articole în volume de conferințe

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II.D. Brevete

D.F. Chiper

- D.F.Chiper, *Circuit pentru optimizarea inmultirii cu 5 in vederea implementarii eficiente folosind tehnologia VLSI*, Cerere de brevet OSIM, 2023
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Ioan Doroftei

- Constantin Cătălin Dosoftei, Alexandru Tudor Popovici, Vasile Horga, Ioan Doroftei, Vlad Aurelian Iolea, Adrian Ciobanu, *Robot mobil omnidirecțional autonom*, brevet de invenție nr. 135580 B1, 12/2023, OSIM.

II.E. Participări în proiecte de cercetare-dezvoltare / Tehnologii și servicii

D.F. Chiper

- Director proiect Grant tip Proiecte de Cercetare Exploratorie PCE 172: PN-III-P4-ID-PCE-2020-0713

D. Condurache

- Director proiect *Mediu colaborativ pentru dezvoltarea arhitecturilor cloud bazate pe OpenStack cu aplicații în CDI*, POC/398/1/1/Dezvoltarea unor rețele de centre CD, coordonate la nivel național și racordate la rețele europene și internaționale de profil și asigurarea accesului cercetătorilor la publicații științifice și baze de date europene și internaționale. Cod SMIS 2014+124998, Valoare: 5.048.822,88 lei

Ioan Doroftei

- MEMBRU ECHIPA (Director: Conf.univ.dr.ing. Nicolae Lucanu), Grant H2020 (Contract: H2020 - WIDESPREAD-05-2020 nr.952378 - BRAINTWIN), *Development of a world-level neuroengineering research centre by European twinning*, 2020-2023, 271 250 Eur (TUIasi).
- MEMBRU ECHIPA (Director: Ioana Octaviana Topa), Grant PN-III-P2-2.1-PTE-2019-0731, *Dezvoltarea unui sistem logistic inteligent utilizând roboți mobili omnidirecționali autonomi (ROSY LOGISTIC)* – responsabil partener TUIASI S.l.dr.ing. Dosoftei Catalin, Coordonator: SELF TRUST SRL Iasi, 2020-2023, 881 000 lei.
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V. Manta

- responsabil Universitatea Tehnica din Iasi, *Romanian National Quantum Communication Infrastructure (RoNaQCI)*, proiect în cadrul programului Digital Europe Programme (DIGITAL), apelul: DIGITAL-2021-QCI-01 (EU Secure Quantum Communication Infrastructure), tema: DIGITAL-2021-QCI-01-DEPLOY-NATIONAL, finanțat de European Commission-EU, proiect number: 101091562, perioada: 1 ianuarie 2023- 30 iunie 2025, buget total - 9 999 877.60 Euro, din care pentru TUIasi 143 454.90 Eur
- Membru proiect IHARD/3.1/75 Joint Operational Programme RO – MD 2014-2020 cu titlul *WiNet@Uni - Joint Cross – Border Networking Infrastructure of Technical Universities of Iasi and Moldova*, perioada de desfășurare: 15.11.2021 – 14.11.2023, director Simona Caraiman

C. Munteanu

- Programul de cercetare și inovare **Orizont 2020 al Uniunii Europene** în baza acordului de grant nr. 823802. Activitățile au fost desfășurate în cadrul laboratorului CNRS-PROMES, UPR 8521, aparținând Centrului Național de Cercetare Științifică (CNRS) francez cu sprijinul științific și personal tehnic, în cadrul acordului de grant nr. 823802 (SFERA-III)”. Acest programa fost susținut de programul francez „Investiții pentru viitor” gestionat de Agenția Națională pentru Cercetare, în cadrul contractului ANR-10-EQPX-49-SOCRATE (Equipex SOCRATE).” S-au efectuat două etape de lucru efectiv la laboratorul CNRS-PROMES, în perioada 10 – 16 iunie 2023 și 27 august - 02 septembrie 2023

D. Nedelcu

- Expert străin GIAN-Global Initiative of Academic Networks, Program al Guvernului Indian, *Manufacturing & Characterization of Composites*, Department of Mechanical

Engineering, S.V. National Institute of Technology, Surat, Gujarat, India, 1-9 iulie 2023.

O. Păstrăvanu

- Petri Net Toolbox for Matlab, *MathWorks - Third Party Products* - Upgrade for MATLAB 2022, www.mathworks.com/products/connections/product_detail/petri-net-toolbox.html membru in echipă

N. Taranu

- *Produse și tehnologii ecoinovatoare pentru eficiență energetică în construcții* - EFECON, (cofinantare din Fondul European de Dezvoltare Regională prin Programul Operațional Competitivitate 2014-2023), membru in echipă

P. Vizureanu

- Director de proiect: *Environmental footprint reduction through eco-friendly technologies of mine tailing recycling* (RecMine), Mai 2022 – Aprilie 2024, COFUND-ERAMIN-3-RecMine, contract no. 307, European Commission, Horizont 2020 (<https://simit.ro/recmine/>).
- Responsabil de proiect: *Harnessing complementary curricular preparedness via sustainable management in response to civil and military pollution on the coastline, tributaries and lagoons in black sea's north, west, south zone*, Call: EMFAF-2023-PIA-FLAGSHIP, Type of action: EMFAF-PJG, Proposal number: 101124670, Black Sea SIERRA, 2023–2026 (<https://simit.ro/black-sea-sierra/>)

III. Prezentări invitate / Comunicări / Premii

1. **Condurache, D.**, „Advances Representation of Higher-Order Kinematics of Motion. Hypercomplex Lie Groups and Lie Algebras, 25th International Symposium on Measurement and Control in Robotics, **Keynote**, Iasi, Romania, September 21 – 22, 2023.
2. **Condurache, D.**, „New Media and Artificial Intelligence. An Introduction”, Zilele Academice Ieșene, Ediția a XXXVIII-a, 20 October 2023. At: Iasi, ROMANIA
3. **Condurache, D.**, „Despre frumusețea adevărului științific”, Academia Română, Academician Radu VOINEA – 100 de ani de la naștere, București, 24 mai, 2023
4. **Condurache, D.**, “The Voinea-Athanasiu Method: History, Recent Re-Discoveries and Extensions”, Conference: INTERNATIONAL CONFERENCE “ZILELE ACADEMIEI DE ȘTIINȚE TEHNICE DIN ROMÂNIA”, At: 4-6 October 2023, Brasov, Romania.
5. **Ioan Doroftei**, Vasile Horga, Marcel - Constantin Rățoi. Medalia de aur la SALONUL INOVĂRII SI CERCETĂRII, UGAL INVENT 2023, 09 - 10 noiembrie 2023, Galați, Romania, pentru "Vehicul cu patru roti omnidirectionale",
6. **Ioan Doroftei**, Mihaiță Horodincă, Ioan - Alexandru Doroftei Medalia de aur la SALONUL INOVĂRII SI CERCETĂRII, UGAL INVENT 2023, 09 - 10 noiembrie 2023, Galați, Romania, pentru "Reductor planetar cu o roată centrală",.
7. Constantin Cătălin Dosofoi, Alexandru Tudor Popovici, Vasile Horga, **Ioan Doroftei**, Vlad - Aurelian Iolea, Adrian Ciobanu, Medalia de aur la SALONUL INOVĂRII SI CERCETĂRII, UGAL INVENT 2023, 09 - 10 noiembrie 2023, Galați, Romania, pentru "Robot mobil omnidirecțional autonom",.
8. Ana - Maria Amancea, **Ioan Doroftei**, Alexandru Barnea, Premiul special OSIM la SALONUL INOVĂRII SI CERCETĂRII, UGAL INVENT 2023, 09 - 10 noiembrie 2023, Galați, Romania, pentru " Sistem mecatronic pentru recuperarea medicală a membrului inferior",.

9. **L. Goras**, M. Fira, *Asupra modurilor ascunse în circuite de tip graf*, Simpozionul Sisteme Inteligente și Aplicații – SIA 2023, Iași, comunicare în cadrul Zilelor Academice Ieșene, ediția a XXXVIII-a, 13 oct 2023.
10. **Dumitru Nedelcu**: Profesor invitat - Silesian University of Technology, Mechanical Engineering Faculty, Gliwice, Poland, 2023-2024. Cursuri: Additive Manufacturing, Mechanics
11. **Dumitru Nedelcu**: Profesor invitat - Silesian University of Technology, Mechanical Engineering Faculty, Gliwice, Poland, 2022-2023. Cursuri: Mechanics I, Procesarea și prelucrarea materialelor compozite, Proiect: Proiectarea matrițelor de injecție
12. **Dumitru Nedelcu**: Profesor invitat - Alecu Russo State University, Balti, Republic of Moldova, 2022-2023. Cursuri: Tehnologia materialelor III, Tehnologia și proprietățile materialelor nemetalice
13. **Dumitru Nedelcu**: Profesor invitat - Alecu Russo State University, Balti, Republic of Moldova, 2023-2024, Cursuri: Tehnologia materialelor III, Tehnologia și proprietățile materialelor nemetalice
14. **Dumitru Nedelcu**: Plenary speaker - AMPT2023, 13-16 septembrie, Bangi, Malaysia.
15. **Păstrăvanu, O.** Matcovschi, M-H. **Voicu, M.**, Comentarii asupra Teoremei lui Cybenko cu referire la precizia aproximărilor de tip rețea neurală. *Sesiunea de comunicări științifice a Institutului de Matematica "Octav Mayer" și a Comisiei de Automatica teoretică și Teoria controlului*, Zilele academice ieșene, Academia Română, Filiala Iași, 28 octombrie 2023.
16. **Petrica Vizureanu** - Premiul de Excelență în Cercetarea Științifică din Universitatea Tehnică "Gh. Asachi" din Iași pentru 2023 și Medalia "Gheorghe Asachi" pentru cercetătorul cu cele mai bune performanțe în cercetarea științifică.
17. Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., **Vizureanu P.**, Kelemen H., Codescu M.M., Sandu A.V., Baltatu M.S., Marinescu V.E., Medalia de aur la Saudi Global Inventions and Innovation Expo (SGiE, 2023), Jeddah, Saudi Arabia.

IV. Activități editoriale – Membri în colective de redacție, comitete de program, referenți, recenzenți

N. D. Alexandru

- Membru în Colectivul editorial al revistei "*Advances in Electrical and Computer Engineering*" și referent
- Membru în International Program Committee of IFSA ARCI' 2023, Chamonix-Mont-Blanc, 24-27 February 2023 și recenzent
- Membru în Technical Program Committee for Advanced International Conference on Telecommunications **AICT 2023** (under the DataSys 2023 umbrella), June 26-30, 2023, Saint-Laurent-du-Var, France și recenzent
- Membru în Technical Program Committee for IEEE 2023 BlackSeaCom Conference on Communications and Networking, 4-7 July 2023, Istanbul, Turkey și recenzent
- Recenzent solicitat de 46th International Conference on Telecommunications and Signal Processing, July 12-14 2023, Virtual Conference
- Membru International Program Committee of Arab ICT Conference "Digital Transformation for Sustainable Infrastructure", December 6-7 2023, Bahrain și recenzent
- Recenzent pentru IEEE Transactions on Signal Processing

D.F. Chiper

- Membru în Colectivul editorial al revistei *Electronics*
- Membru în Colectivul editorial al revistei *Applied Sciences*
- Membru în Colectivul editorial al revistei *Acoustics, Speech and Signal Processing*,

ISSN 2522-6827, Canada;

- Membru în Colectivul editorial al revistei *Artificial Intelligence Evolution*, Universal Wiser Publisher, Singapore
- Membru în Colectivul editorial al revistei *Information Systems and Signal Processing Journal*, ISSN 2371-9419, Canada;
- Membru în Colectivul editorial al revistei *Journal of Electronics and Information Science*, ISSN 2371-9524, Canada;
- Membru în Colectivul editorial al revistei *Journal of Low Power Electronics and Design*, Canada;
- Membru în Colectivul editorial al revistei *Journal of Electronic Research and Applications*, ISSN: 2208-3502, Australia;
- Membru în Colectivul editorial al revistei *Science Journal of Circuits, Systems and Signal Processing*, ISSN Print: 2326-9065, New York
- Guest Editor la *Electronics* la numărul special „Advances in Algorithms and Architectures for Digital Signal Processing
- Guest Editor la *Applied Sciences* la numărul special ” "Advances in Digital Signal Processing: New Applications and Efficient Implementations "
- Recenzor de lucrări publicate în reviste internaționale ISI: *IEEE Trans. On Circuits and Systems I*, *IEEE Trans. On Circuits and Systems II*, *IEEE Signal processing Letters*, *IEEE Access*, *IEEE Communications Letters*, *Circuits, Systems and Signal Processing*, *Electronics*, *Computers*, *Sensors*

D. Condurache

- Redactor șef - *Buletinul Institutului Politehnic din Iasi, seria Matematică, Mecanică Teoretică, Fizică*
- Topical editor - *Mechanical Sciences*
- Editor - *The Romanian Journal of Technical Sciences, seria Applied Mechanics*
- Member of the editorial team - *Parana Journal of Science and Education (PJSE)*, ISSN 2447-6153-
- Editorial board member - *Romanian Journal of Mechanics* ISSN 2537 -5229-
- Referent la revistele: *Heliyon*, *Acta Astronautica*, *Mathematical Problems in Engineering*, *Measurement*, *Journal of Mechanical Design*, *IEEE Robotics and Automation Letters*, *Astrophysics and Space Science*, *Advances in Space Research*, *Mathematical Methods in the Applied Sciences*, *Advances in Applied Clifford Algebras*, *Mechanism and Machine Theory*, *The Journal of the Franklin Institute*, *Celestial Mechanics and Dynamical Astronomy*, *The Journal of the Astronautical Sciences*, *Journal of Guidance Control and Dynamics*, *International Journal of Non-linear Mechanics*, *Meccanica*, *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*
- Membru în *Technical Committee of Computational Kinematics of IFToMM* ales la *15-th IFToMM World Congress 2019 in Krakow, Poland*.
- Chair at the 9th International Conference on Control. Decision and Information Technologies CoDIT 2023, July 03-06, 2023, Università di Roma, Sapienza, Rome, Italy
- Chair at the 11th ECCOMAS Thematic Conference on MULTIBODY DYNAMICS, 12-14 July 2023, Instituto Superior Tecnico-Lisbon, Portugal.
- Chair at the 16th IFToMM World Congress 2023, 5-10 November 2023, Tokyo, Japan.

D. Cristea

- Conducătorul colectivului de limbaj natural din cadrul Institutului de Informatică Teoretică al Filialei Iași a Academiei Române.

- Membru al comitetului editorial al revistei *Journal of Language Modelling* (<https://jlm.ipipan.waw.pl/index.php/JLM/about/editorialBoard>)
- Membru al comitetului editorial al revistei *Romanian Journal of Information Science and Technology* (ROMJIST – <https://www.romjist.ro/committees.html>).

A. Dima

- Membru în Colectivul editorial al revistei *ASTR Journal of Engineering Sciences and Innovation* (JESI).

I. Doroftei

- Associate Editor, ROBOTICA (<https://www.cambridge.org/core/journals/robotica/information/editorial-board>)
- Topic Editor, ACTUATORS (https://www.mdpi.com/journal/actuators/topic_editors)
- Guest Editor, ACTUATORS (https://www.mdpi.com/journal/actuators/special_issues/advanced_robots_actuators)
- Topic Editor, MATERIALS (https://www.mdpi.com/journal/materials/topic_editors)
- Guest Editor, MATERIALS (https://www.mdpi.com/journal/materials/special_issues/advance_materials_multifunctional_applications)
- Membru in comitetul editorial, European Journal of Mechanical and Environmental Engineering, Bruxelles, ISSN 0035-3612, editată de Belgian Society of Mechanical and Environmental Engineering.
- Membru in comitetul editorial, International Journal of Advance Robotics & Expert Systems (JARES).
- Membru in comitetul editorial, Bulletin of the Polytechnic Institute of Iași. Machine constructions Section, eISSN 2537-4869.
- Membru in comitetul stiintific, ROBOTICA & MANAGEMENT-International Journal, revista BDI, ISSN 1453-2069, editată de Societatea de Robotica din Romania.
- Membru in comitetul stiintific, Bulletin of the Transilvania University of Brasov, Series I: Engineering Sciences.
- Recenzor la jurnale: IEEE Transactions on Robotics; IEEE Transactions on Mechatronics; IEEE Transactions on Industrial Electronics; IEEE Systems; IEEE Transactions on Cognitive and Developmental Systems; Robotics and Computer Integrated Manufacturing; International Journal of Advanced Robotic Systems; Robotica; Journal of Sensors; Robotics and Autonomous Systems; Journal of Mechanical Science and Technology; Assembly Automation; Journal of Bionic Engineering; Journal of Intelligent & Robotics Systems; Journal of Advanced Manufacturing and Processing; Electronics; Energies; Applied Sciences; Computer Speech and Language; Advances in Mechanical Engineering; Applied Mathematics and Mechanics; Computational Intelligence and Neuroscience; Archive of Mechanical Engineering; Drones; Mechanics & Industry; Mathematical Problems in Engineering; Machines; Acta IMEKO; Proceedings of the Romanian Academy – Series A; Romanian Journal of Technical Sciences; European Journal of Mechanical and Environmental Engineering; ROBOTICA & MANAGEMENT-International Journal; Frontiers in Energy Research; Frontiers of Mechanical Engineering; Intelligent Service Robotics; Robotics; Sustainability; Mechatronics; Journal of Pharmaceutical Research International; Part C_ Journal of Mechanical Engineering Science; Biomimetics; Sensors; Actuators; IEEE Robotics and Automation Magazine; Applied Bionics and Biomechanics; Agriculture; Processes;
- Membru în Comitetul științific la conferințe: 11th International Conference - Modern Technologies in Industrial Engineering, ModTech 2023, June 14-17, 2023, Continental Forum Hotel, Bucharest, Romania; International Conference on Advancement in

Computation & Computer Technologies (InCACCT), 2023, Chandigarh University, Punjab (India); 26th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines, CLAWAR 2023, Federal University of Santa Catarina, Florianópolis, Brazil, 02 – 04 October 2023; International Conference on Intelligent and Smart Computation, ICIASC-2023, Chandigarh University, Punjab, India, 2023.

- Recenzor la conferințe: 11th International Conference - Modern Technologies in Industrial Engineering, ModTech 2023, June 14-17, 2023, Continental Forum Hotel, Bucharest, Romania; 26th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines, CLAWAR 2023, Federal University of Santa Catarina, Florianópolis, Brazil, 02 – 04 October 2023; 25th International Symposium on Measurement and Control in Robotics, ISMCR 2023, September 21 – 23, 2023, Iasi, Romania; The 16th World Congress of the International Federation for the Promotion of Mechanism and Machine Science, IFToMM WC2023, 05 – 09 November 2023, Tokyo, Japan.

L. Goras

- Organizator principal al Simpozionului Internațional *de Semnale, Circuite și Sisteme*, ISSCS
- Membru în Colectivul editorial al revistei *International Journal of Neural Networks and Applications*
- Membru în Colectivul editorial al revistei *Acta Technica Napocensis (Electronics and Telecommunications)*
- Referent solicitat de revistele *IEEE Trans Circuits and Systems*, *IEEE Trans Biomedical Engineering*, *JESI*.
- Recenzent solicitat de revista *Zentralblatt für Mathematik*
- Review Editor al Editorial Board of *Interdisciplinary Physics*
- Membru în *Comisia de Știința și Tehnologia Micro-Sistemelor (STMS)* a Secției de *Știința și Tehnologia Informației* a Academiei Române;
- Membru in comitetul editorial al *IEEE CAS-Magazine*,
- Life Senior Member IEEE
- Membru in European Academy of Sciences and Art
-

C. Lazăr

- Membru în Colectivul editorial al Revistei *The Annals of "Dunarea de Jos" University of Galati, Fascicle III: Electrotechnics, Electronics, Automatic Control, Informatics*
- Membru în Colectivul editorial al Revistei *Buletinul Institutului Politehnic din Iasi, Electrotechnics, Energetics, Electronics Section*
- *Electrotechnics, Energetics, Electronics Section*
- Referent solicitat de revista *Frontiers in Plant Science*
- Referent solicitat de organizatorii conferințelor:
 - European Control Conference, 25-28 June 2024, Stockholm, Sweden
 - IFAC World Congress, 9-14 July 2023, Yokohama, Japan
 - 31st Mediterranean Conference on Control and Automation (MED), 26-29 June 2023, Limassol, Cyprus
 - 16th International Symposium on Signals, Circuits and Systems (ISSCS), 13-14 July 2023, Iasi, Romania
 - 24th International Conference on Control Systems and Computer Science (CSCS24), 24-26 May 2023, Bucharest, Romania
 - 27th International Conference on System Theory, Control and Computing (ICSTCC), 11-13 October 2023, Timisoara, Romania

- Coorganizator al sesiunii invitate “MED_Invited Session: Intelligent Data Processing in Control and Decision Support Systems” în cadrul conferinței 31st Mediterranean Conference on Control and Automation (MED), 26-29 June 2023, Limassol, Cyprus

V. Manta

- Membru în Colectivul editorial al revistei “*Advances in Electrical and Computer Engineering*” și referent
- Membru în Comitetul de program al conferinței 27th International Conference on System Theory, Control and Computing, ICSTCC 2023 (IEEE Xplore, ISI Clarivate)
- Associate Editors-in-Chief: System Theory, Control and Computing Journal, <https://stccj.ucv.ro/index.php/stccj/index>
- Referent solicitat de organizatorii conferințelor:
- 27th Internațional Conference on System Theory, Control and Computing (ICSTCC), 11-13, October, 2023, Sinaia
- 2023, Computer Vision and Pattern Recognition Conference (CVPR)
- 19th International Conference on Intelligent Computer Communication and Processing, October 26-28, 2023, Cluj-Napoca, Romania
- Referent revista ISI: Quantum Information Processing

C. Munteanu

- Editor Special Issue "Biomaterials Characterization for Medical Applications", Crystals, MDPI, https://www.mdpi.com/journal/crystals/special_issues/biomaterials_characterization
- Membru în Comitetul de program al conferinței Bioremed 2023
- Recenzor de lucrări publicate în reviste internaționale ISI: *Materials, Crystals, Metals, Applied Surface Science, Sensors, Arabian Journal of Chemistry, Surface and Interfaces, Materials and Science & Engineering, Surface & Coatings Technology, Coatings, Journal of Textiles Materials.*

D. Nedelcu

- Editor Șef *International Journal of Hybrid Information Technology*, Global Vision Press, Australia.
- Editor Șef *Advanced Engineering Forum*, Scopus etc., Trans Tech Publications Inc., Elveția.
- Editor Șef *International Journal of Modern Manufacturing Technologies.*
- Editor Șef *International Journal of Manufacturing Economics and Management.*
- Editor *Annals of Dunarea de Jos University of Galați*, Fascicle XII, *Welding Equipment and Technology.*
- Topic editor *Polymers*, jurnal WoS Zona Q1
- Topic editor *Materials*, jurnal WoS Zona Q2
- Editor *Indian Journal of Engineering and Materials Sciences*
- Membru comitet editorial *Journal of Mechanical Engineering and Automation (JMEA)*- SUA
- Membru comitet editorial *Journal of Military Technology*, Romania
- Referent la revistele: *Applied Sciences, Macromolecular Symposia, Metals, Acta Technica Napocensis*

O. Păstrăvanu

- Membru în Colectivul editorial al revistei *Control Engineering and Applied Informatics*
- Membru în Colectivul editorial al revistei *Revista Română de Informatică și Automatică*

- Membru în Comitetul de program al conferinței *27th International Conference on System Theory, Control and Computing*, ICSTCC 2023 (IEEE Xplore, ISI Clarivate)
- Membru în Comitetul de program al conferinței *17th International Symposium on Applied Computational Intelligence* SACI 2023 (IEEE Xplore, ISI Clarivate)
- Member of Track 4 Technical program committee at ETFA'2023, 28th IEEE *International Conference on Emerging Technologies and Factory Automation*, Stuttgart, (IEEE Xplore, ISI Clarivate)
- Recenzent solicitat de revistele *Zentralblatt für Mathematik*, *Mathematical Reviews*

V. I. Popa

- Editor șef al revistei *Cellulose Chemistry and Technology* (revistă a Academiei Romane)
- Membru: *International of Lignin Institute*, *International Academy of Wood Chemistry*, *International Association of Scientific Papermakers*

N. Țăranu

- Editor șef al revistei *Buletinul Institutului Politehnic din Iasi, Secția Construcții și Arhitectura*.
- Membru în Colectivul editorial al revistei *Annals of the Academy of Romanian Scientists Series on Engineering Sciences*.
- Member of the Advisory Board, International Conference "Computational Civil Engineering" Iasi, Romania, 24-25 May, 2023
- Membru în Comitetul de program al conferinței "ModTech International Conference", hybrid, 14-17 June, 2023, Bucharest, Romania.
- Member of the International Scientific Committee, "International Conference VSU 2023, Sofia, June 22-24, 2023

M. Voicu

- Membru în Colectivul editorial al revistei *Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Science*
- Membru în Colectivul editorial al revistei *Control Engineering and Applied Informatics* (CEAI)
- Membru în Colectivul editorial al revistei *Romanian Journal of Information Science and Technology* (ROMJIST)
- Membru în Colectivul editorial al revistei *ASTR Journal of Engineering Sciences and Innovation* (JESI).
- Membru în Colectivul editorial al revistei *Revista Română de Informatică și Automatică*
- Membru al Comitetului de Program 7th IEEE International Conference on System Theory, Control and Computing, October, **2023**, desfășurată la Universitatea Politehnica din Timișoara, Romania; sponsorizată tehnic de IEEE Control Systems Society; inclusă în baza de date IEEE Xplore; www.ieeeccs.org/conferences/technically-co-sponsored-conferences, editor asociat
- Membru al Comitetului de Program 9th Conference on Control, Decision and Information Technologies (CoDIT 2023), July 3-6, 2023, University of Rome La Sapienza
- Recenzent solicitat de revistele *Zentralblatt für Mathematik*, *Mathematical Reviews*.

P. Vizureanu

- Guest Editor - MATERIALS (MDPI): Special Issue - Advanced Surface Treatment Technologies for Metallic Alloys (Second Volume)
- Guest Editor - MATERIALS (MDPI): Special Issue - Advanced Surface Treatment Technologies for Metallic Alloys

- Guest Editor - MATERIALS (MDPI): Special Issue - Future Trends in Advanced Materials and Processes
- Guest Editor - COATINGS (MDPI): Special Issue - Surface Treatment of Metals
- Guest Editor - COATINGS (MDPI): Special Issue - Surface Treatment of Metals II
- Guest Editor - COATINGS (MDPI): Topical Collection - "Feature Paper Collection (5) of Topic Editors"
- Guest Editor - MAGNETOCHEMISTRY (MDPI): Special Issue - In-depth Assessment of Highly Specialised Materials
- Guest Editor - MICROMACHINES (MDPI): Special Issue - Implantable Biocompatible Alloys Devices and Application
- Membru în Editorial Board la Coatings MDPI

Președinte,

Prof. univ. dr. ing. Mihail Voicu
m.c. al Academiei Române

Secretar,

Prof. univ. dr. ing. Octavian Păstrăvanu