

**ARTICOLE PUBLICATE IN REVISTE RECUNOSCUTE LA NIVEL INTERNATIONAL, COTATE CLARIVATE
ANALYTICS (ISI WEB OF SCIENCE) SAU ARTS & HUMANITIES ÎN ANUL 2022**

Nicoleta Aldea

N. Aldea, P. Kopacz, Time geodesics on a slippery slope under gravitational wind, *Nonlinear Analysis*, Volume 227, 2023, <https://doi.org/10.1016/j.na.2022.113160>.

Constantin Lucian Aldea

1. Aldea CL, Bocu R, Vasilescu A. Relevant Cybersecurity Aspects of IoT Microservices Architectures Deployed over Next-Generation Mobile Networks. *Sensors*. 2023; 23(1):189. <https://doi.org/10.3390/s23010189>

Alexandra Băicoianu

1. A. Băicoianu, A. Garofide, R. -I. Luca and M. Vlădărean, "Structural Optimization Using Genetic Algorithms," *2022 International Conference on INnovations in Intelligent SysTems and Applications (INISTA)*, Biarritz, France, 2022, pp. 1-5, doi: 10.1109/INISTA55318.2022.9894243.
2. A. Băicoianu, P. Stănoiu, M. Velea and C. Husar, "A Machine Learning Proposal for Condition Monitoring of Vehicle Suspension," *2022 International Conference on INnovations in Intelligent SysTems and Applications (INISTA)*, Biarritz, France, 2022, pp. 1-5, doi: 10.1109/INISTA55318.2022.9894160.

Răzvan Bocu

1. Aldea CL, Bocu R, Vasilescu A. Relevant Cybersecurity Aspects of IoT Microservices Architectures Deployed over Next-Generation Mobile Networks. *Sensors*. 2023; 23(1):189. <https://doi.org/10.3390/s23010189>
2. Bocu R, Vasilescu A, Duca Iliescu DM. Personal Health Metrics Data Management Using Symmetric 5G Data Channels. *Symmetry*. 2022; 14(7):1387. <https://doi.org/10.3390/sym14071387>
3. Bocu R, Bocu D, Iavich M. An Extended Review Concerning the Relevance of Deep Learning and Privacy Techniques for Data-Driven Soft Sensors. *Sensors*. 2023; 23(1):294. <https://doi.org/10.3390/s23010294>
4. Bocu R, Iavich M. Real-Time Intrusion Detection and Prevention System for 5G and beyond Software-Defined Networks. *Symmetry*. 2023; 15(1):110. <https://doi.org/10.3390/sym15010110>
5. Bocu R, Bocu D, Iavich M. Objects Detection Using Sensors Data Fusion in Autonomous Driving Scenarios. *Electronics*. 2021; 10(23):2903. <https://doi.org/10.3390/electronics10232903>

Adina Chirilă

1. Chirilă, A., Marin, M. & Montanaro, A. Well-posedness for thermo-electro-viscoelasticity of Green–Naghdi type. *Continuum Mech. Thermodyn.* **34**, 39–60 (2022).
2. A. Chirila, M. Marin, Well-posedness for microstretch elasticity in the case of mass and thermal diffusion, *TWMS J. Pure Appl. Math.*, V.13, N.2, 2022, pp.191-210
3. Chirilă, A., Marin, M. & Montanaro, A. Well-posedness for thermo-electro-viscoelasticity of Green–Naghdi type. *Continuum Mech. Thermodyn.* **34**, 39–60 (2022).

4. Marin Marin, Aly Seadawy, Sorin Vlase & Adina Chirila (2022) On mixed problem in thermoelasticity of type III for Cosserat media, *Journal of Taibah University for Science*, 16:1, 1264-1274, DOI: 10.1080/16583655.2022.2160290

Adrian Deaconu

1. Deaconu O, Deaconu AM, Chitonu GC, Taus D. The Online Teaching System as a Sustainable Way of Learning. *Sustainability*. 2022; 14(18):11556. <https://doi.org/10.3390/su141811556>

Duca Iliescu Delia

1. Bocu R, Vasilescu A, Duca Iliescu DM. Personal Health Metrics Data Management Using Symmetric 5G Data Channels. *Symmetry*. 2022; 14(7):1387. <https://doi.org/10.3390/sym14071387>

Olivia Florea

1. A. N. Emin, O. Florea, Green-Lindsay thermoelasticity for double porous materials, *An. S.t. Univ. Ovidius Constanta*, Vol. 31(1), 2023, 97–113.

Andreea Ileana Fulga

1. Zhou M, Liu X, Saleem N, Fulga A, Özgür N. A New Study on the Fixed Point Sets of Proinov-Type Contractions via Rational Forms. *Symmetry*. 2022; 14(1):93. <https://doi.org/10.3390/sym14010093>

2. E. Karapinar, A. Fulga, Discussion on the hybrid Jaggi-Meir-Keeler type contractions, *AIMS Mathematics* 2022, Volume 7, Issue 7: 12702-12717. doi: 10.3934/math.2022703

3. Chi-Ming Chen and Andreea Fulga, On interpolative Q-Meir-Keeler type contraction, *Journal of Nonlinear and Convex Analysis*, Volume 23, Number 6, 1143-1150, 2022

4. H. Afshari, H. Shojaat, and A. Fulga, Common new fixed point results on b-cone Banach spaces over Banach algebras, *Appl. Gen. Topol.*, vol. 23, no. 1, pp. 145–156, Apr. 2022.

5. Erdal Karapinar, Andreea Fulga, Seher Sultan Yeşilkaya, Fixed Points of Proinov Type Multivalued Mappings on Quasimetric Spaces, *Journal of Function Spaces*, vol. 2022, Article ID 7197541, 9 pages, 2022. <https://doi.org/10.1155/2022/7197541>

6. Karapinar E, Fulga A, Yeşilkaya SS. Interpolative Meir-Keeler Mappings in Modular Metric Spaces. *Mathematics*. 2022; 10(16):2986. <https://doi.org/10.3390/math10162986>

7. Karapinar E, Fulga A. Contraction in Rational Forms in the Framework of Super Metric Spaces. *Mathematics*. 2022; 10(17):3077. <https://doi.org/10.3390/math10173077>

8. E. Karapinar, A. Fulga, N. Shahzad, A. F. Roldán López de Hierro, Solving Integral Equations by Means of Fixed Point Theory, *Journal of Function Spaces*, vol. 2022, Article ID 7667499, 16 pages, 2022. <https://doi.org/10.1155/2022/7667499>

Honorius Gâlmeanu

1. Gâlmeanu H, Andonie R. Concept Drift Adaptation with Incremental–Decremental SVM. *Applied Sciences*. 2021; 11(20):9644. <https://doi.org/10.3390/app11209644>
2. Honorius Gâlmeanu, Răzvan Andonie, Weighted Incremental–Decremental Support Vector Machines for concept drift with shifting window, *Neural Networks*, Volume 152, 2022, <https://doi.org/10.1016/j.neunet.2022>

Garoiu Ștefan

1. Nicoleta Voicu, Ștefan Garoiu, Bianca Vasian, On the closure property of Lepage equivalents of Lagrangians, *Differential Geometry and its Applications*, Volume 81, 2022

Marin Marin

1. Vlase, S., Marin, M., Öchsner, A. *et al.* Matrix formalism used to describe the inertial properties in multibody dynamics. *Continuum Mech. Thermodyn.* 34, 1267–1285 (2022). <https://doi.org/10.1007/s00161-022-01120-9>
2. Chirilă, A., Marin, M. & Montanaro, A. Well-posedness for thermo-electro-viscoelasticity of Green–Naghdi type. *Continuum Mech. Thermodyn.* 34, 39–60 (2022).
3. Marin Marin, Aly Seadawy, Sorin Vlase & Adina Chirila (2022) On mixed problem in thermoelasticity of type III for Cosserat media, *Journal of Taibah University for Science*, 16:1, 1264-1274, DOI: 10.1080/16583655.2022.2160290
4. Marin Marin, Ibrahim Abbas. On weak solutions of boundary values problem in the theory of Cosserat porous bodies, *ZAMM-ZEITSCHRIFT FÜR ANGEWANDTE MATHEMATIK UND MECHANIK*, 2022
5. Alotaibi MF, Khalil EM, Abd-Rabbou MY, Marin M. The Classicality and Quantumness of the Driven Qubit–Photon–Magnon System. *Mathematics*. 2022; 10(23):4458. <https://doi.org/10.3390/math10234458>
6. Abbas I, Marin M, Hobiny A, Vlase S. Thermal Conductivity Study of an Orthotropic Medium Containing a Cylindrical Cavity. *Symmetry*. 2022; 14(11):2387. <https://doi.org/10.3390/sym14112387>
7. Scutaru ML, Marin M, Vlase S. Dynamic Absorption of Vibration in a Multi Degree of Freedom Elastic System. *Mathematics*. 2022; 10(21):4045. <https://doi.org/10.3390/math10214045>
8. Marin, M., Öchsner, A. & Vlase, S. A model of dual-phase-lag thermoelasticity for a Cosserat body. *Continuum Mech. Thermodyn.* 35, 1–16 (2023). <https://doi.org/10.1007/s00161-022-01164-x>
9. Anand Kumar Yadav, Erasmo Carrera, Marin Marin & Mohamed Ibrahim Ahmed Othman (2022) Reflection of hygrothermal waves in a *Nonlocal Theory* of coupled thermo-elasticity, *Mechanics of Advanced Materials and Structures*, DOI: 10.1080/15376494.2022.2130484
10. Marin, M., Fudulu, I.M. & Vlase, S. On some qualitative results in thermodynamics of Cosserat bodies. *Bound Value Probl* 2022, 69 (2022). <https://doi.org/10.1186/s13661-022-01652-8>

11. Marin M, Vlase S, Tuns I. On Energy Release Rate for Propagation of a Straight Crack in a Cosserat Elastic Body. *Mathematics*. 2022; 10(18):3226. <https://doi.org/10.3390/math10183226>
12. Jelenschi, L (Jelenschi, Liviu) ; Ochsner, A (ochsner, Andreas) ; Scutaru, ML (Scutaru, Maria Luminita) ; Vlase, S (Vlase, Sorin) ; Marin, M (Marin, Marin), Experimental study of the valve rotation in a valvetrain car engine, PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L- JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS) Volume: 236 Issue: 10 Page: 2085-2102
13. Vlase, S (Vlase, Sorin) ; Marin, M (Marin, Marin) ; Ochsner, A (Oechsner, Andreas) ; Scutaru, ML (Scutaru, Maria Luminita), Generalized Gibbs-Appell's equations and two-dimensional finite elements model used in flexible multibody analysis, CONTINUUM MECHANICS AND THERMODYNAMICS, Volume: 34 Issue: 5 Page: 1257-1265 DOI: 10.1007/s00161-022-01119-2
14. Almuhayfith FE, Darwish JA, Alharbi R, Marin M. Burr XII Distribution for Disease Data Analysis in the Presence of a Partially Observed Failure Mode. *Symmetry*. 2022; 14(7):1298. <https://doi.org/10.3390/sym14071298>
15. Abbas I, Hobiny A, Vlase S, Marin M. Generalized Thermoelastic Interaction in a Half-Space under a Nonlocal Thermoelastic Model. *Mathematics*. 2022; 10(13):2168. <https://doi.org/10.3390/math10132168>
16. Marin, M., Vlase, S., Öchsner, A. *et al.* Some results on the electroacoustic energy flux for micropolar bodies. *Continuum Mech. Thermodyn.* **34**, 1197–1204 (2022). <https://doi.org/10.1007/s00161-022-01114-7>
17. Hobiny A, Abbas I, Alshehri H, Vlase S, Marin M. Thermoelastic Analysis in Poro-Elastic Materials Using a TPL Model. *Applied Sciences*. 2022; 12(12):5914. <https://doi.org/10.3390/app12125914>
18. Akram J, Zeeshan A, Alhodaly MS, Marin M. Evaluation of Magnetohydrodynamics of Natural Convective Heat Flow over Circular Cylinder Saturated by Nanofluid with Thermal Radiation and Heat Generation Effects. *Mathematics*. 2022; 10(11):1858. <https://doi.org/10.3390/math10111858>
19. A. Shahid, H.L. Huang, M.M. Bhatti, M. Marin, Numerical computation of magnetized bioconvection nanofluid flow with temperature-dependent viscosity and Arrhenius kinetic, *Mathematics and Computers in Simulation*, Volume 200, 2022, Pages 377-392.
20. Jelenschi L, Öchsner A, Scutaru ML, Vlase S, Marin M. Experimental study of the valve rotation in a valvetrain car engine. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*. 2022;236(10):2085-2102. doi:10.1177/14644207221097902
21. Marin, M., Vlase, S. and Fudulu, I.M.. "A result of instability for two-temperatures Cosserat bodies" *Analele științifice ale Universității "Ovidius" Constanța. Seria Matematică*, vol.30, no.2, 2022, pp.179-192. <https://doi.org/10.2478/auom-2022-0025>
22. Hobiny A, Abbas I, Alshehri H, Marin M. Analytical Solutions of Nonlocal Thermoelastic Interaction on Semi-Infinite Mediums Induced by Ramp-Type Heating. *Symmetry*. 2022; 14(5):864. <https://doi.org/10.3390/sym14050864>
23. Abbas I, Hobiny A, Alshehri H, Vlase S, Marin M. Analysis of Thermoelastic Interaction in a Polymeric Orthotropic Medium Using the Finite Element Method. *Polymers*. 2022; 14(10):2112. <https://doi.org/10.3390/polym14102112>

24. Abouelregal AE, Marin M, Alsharari F. Thermoelastic Plane Waves in Materials with a Microstructure Based on Micropolar Thermoelasticity with Two Temperature and Higher Order Time Derivatives. *Mathematics*. 2022; 10(9):1552. <https://doi.org/10.3390/math10091552>
25. Marin, M., Carrera, E., Vlase, S. *et al.* Some results on stability and continuous dependence in Green-Naghdi thermoelasticity of Cosserat bodies. *Bound Value Probl* **2022**, 28 (2022). <https://doi.org/10.1186/s13661-022-01610-4>
26. Vlase, S., Marin, M., Öchsner, A. *et al.* Elastic response of a hollow cylinder with voids and micropolar structure. *Continuum Mech. Thermodyn.* **34**, 855–866 (2022). <https://doi.org/10.1007/s00161-022-01095-7>
27. Alghamdi AS, Abd-Elmougod GA, Kundu D, Marin M. Statistical Inference of Jointly Type-II Lifetime Samples under Weibull Competing Risks Models. *Symmetry*. 2022; 14(4):701. <https://doi.org/10.3390/sym14040701>
28. Rizwan M, Hassan M, Makinde OD, Bhatti MM, Marin M. Rheological Modeling of Metallic Oxide Nanoparticles Containing Non-Newtonian Nanofluids and Potential Investigation of Heat and Mass Flow Characteristics. *Nanomaterials*. 2022; 12(7):1237. <https://doi.org/10.3390/nano12071237>
29. Marin, Marin Carrera, Erasmo, Vlase, Sorin, An extension of the Hamilton variational principle for piezoelectric bodies with dipolar structure, *Mechanics of Advanced Materials and Structures*, 2022, <https://doi.org/10.1080/15376494.2022.2055239>
30. Marin M, Vlase S, Craciun EM, Pop N, Tuns I. Some Results in the Theory of a Cosserat Thermoelastic Body with Microtemperatures and Inner Structure. *Symmetry*. 2022; 14(3):511. <https://doi.org/10.3390/sym14030511>
31. Itu C, Vlase S, Marin M. A Vibration Analysis of the Rubber Inertial Dampers Used in Electrical Vehicles. *Polymers*. 2022; 14(5):953. <https://doi.org/10.3390/polym14050953>
32. Marin, M., Öchsner, A. & Vlase, S. A final boundary problem for modeling a thermoelastic Cosserat body. *Continuum Mech. Thermodyn.* **34**, 627–636 (2022). <https://doi.org/10.1007/s00161-022-01083-x>
33. Aloafi TA, Elhag AA, Jawa TM, Sayed-Ahmed N, Bayones FS, Bouslimi J, Marin M. Predication and Photon Statistics of a Three-Level System in the Photon Added Negative Binomial Distribution. *Symmetry*. 2022; 14(2):284. <https://doi.org/10.3390/sym14020284>
34. A. Chirila, M. Marin, Well-posedness for microstretch elasticity in the case of mass and thermal diffusion, *TWMS J. Pure Appl. Math.*, V.13, N.2, 2022, pp.191-210
35. Marin, M., Vlase, S., Fudulu, I. M., & Precup, G. (2022). On instability in the theory of dipolar bodies with two-temperatures. *Carpathian Journal of Mathematics*, 38(2), 459–468. <https://www.jstor.org/stable/27105206>
36. Hobiny A, Abbas I, Marin M. The Influences of the Hyperbolic Two-Temperatures Theory on Waves Propagation in a Semiconductor Material Containing Spherical Cavity. *Mathematics*. 2022; 10(1):121. <https://doi.org/10.3390/math10010121>

37. Vlase S, Marin M, Iuliu N. Finite Element Method-Based Elastic Analysis of Multibody Systems: A Review. *Mathematics*. 2022; 10(2):257. <https://doi.org/10.3390/math10020257>

38. Jelenschi, L (Jelenschi, Liviu) ;Scutaru, ML (Luminita Scutaru, Maria) ; Marin, M (Marin, Marin) ; Cofaru, C (Cofaru, Corneliu), Modelling the Valvetrain of the Car Engine to Study the Effects of Valve Rotation, APPLIED SCIENCES-BASEL, Volume: 12 Issue: 7 Article Number: 3393 DOI: 10.3390/app12073393

39. Marin M, Vlase S, Abbas IA. Symmetry in Applied Continuous Mechanics 2022. *Symmetry*. 2022; 14(11):2427. <https://doi.org/10.3390/sym14112427>

Alexandra Meleşteu

1. Meleşteu, A.D., Pascu, M.N. & Pascu, N.R. Convex Ordering of Pólya Random Variables and Approximation Monotonicity of Bernstein–Stancu Operators. *Results Math* **78**, 32 (2023). <https://doi.org/10.1007/s00025-022-01802-5>

2. Meleşteu, A.D., Păltănea, R. On a Method for Uniform Summation of the Fourier-Jacobi Series. *Results Math* **77**, 153 (2022). <https://doi.org/10.1007/s00025-022-01703-7>

Radu Miculescu

1. R. Miculescu, A. Mihail and I. Savu, A characterization of fuzzy fractals generated by an orbital fuzzy iterated function system, CARPATHIAN J. MATH. Volume 38 (2022), No. 3, Pages 583 – 595.

2. Miculescu, R., Mihail, A. & Urziceanu, SA. An application of Edelstein’s contraction principle: the attractor of a graph-directed generalized iterated function system. *J. Fixed Point Theory Appl.* **24**, 63 (2022). <https://doi.org/10.1007/s11784-022-00978-1>

3. Miculescu, R., Mihail, A. Graph Lipscomb’s space is a generalized Hutchinson–Barnsley fractal. *Aequat. Math.* **96**, 1141–1157 (2022). <https://doi.org/10.1007/s00010-022-00918-x>

Nicuşor Minculete

1. N. Minculete, L. Piscoran, Vectorial and metrical relations in tetrahedron, *J. Math. Ineq.*, Volume 16, Number 2 (2022), 687–706.

2. Raşiu A, Minculete N. On Several Bounds for Types of Angular Distances. *Mathematics*. 2022; 10(18):3303. <https://doi.org/10.3390/math10183303>

3. Altwaijry N, Feki K, Minculete N. Further Inequalities for the Weighted Numerical Radius of Operators. *Mathematics*. 2022; 10(19):3576. <https://doi.org/10.3390/math10193576>

4. Altwaijry N, Feki K, Minculete N. Some New Estimates for the Berezin Number of Hilbert Space Operators. *Axioms*. 2022; 11(12):683. <https://doi.org/10.3390/axioms11120683>

Mircea Neagu

1. M. Neagu, N. Krylova, E. Ovsyuk, V. Redkov, Optics in anisotropic inhomogeneous media and Lagrange geometry, *International Journal of Geometric Methods in Modern Physics* VOL. 19, NO. 10
2. Mircea Neagu , Vladimir Balan, Alexandru Oană, Dual jet time-dependent Hamilton geometry and the least squares variational method, *U.P.B. Sci. Bull., Series A*, Vol. 84, Iss. 2, 2022.

Oană Alexandru

1. Mircea Neagu , Vladimir Balan, Alexandru Oană, Dual jet time-dependent Hamilton geometry and the least squares variational method, *U.P.B. Sci. Bull., Series A*, Vol. 84, Iss. 2, 2022.

Mihai Pascu

1. Meleşteu, A.D., Pascu, M.N. & Pascu, N.R. Convex Ordering of Pólya Random Variables and Approximation Monotonicity of Bernstein–Stancu Operators. *Results Math* **78**, 32 (2023). <https://doi.org/10.1007/s00025-022-01802-5>

Cristina Păcurar

1. Navascués MA, Pacurar C, Drakopoulos V. Scale-Free Fractal Interpolation. *Fractal and Fractional*. 2022; 6(10):602. <https://doi.org/10.3390/fractalfract6100602>

Eugen Păltănea

1. D. S. Marinescu and E. Păltănea, A new approach to the three bisectors problem, *Bull. Belg. Math. Soc. Simon Stevin*, Vol.28, No. 5 (2022): 737-744.

Radu Păltănea

1. Meleşteu, A.D., Păltănea, R. On a Method for Uniform Summation of the Fourier-Jacobi Series. *Results Math* **77**, 153 (2022). <https://doi.org/10.1007/s00025-022-01703-7>

Monica Purcaru

1. Sova, D., Gurau, L., Porojan, M. *et al.* Indirect Evaluation of the Porosity of Waste Wood Briquettes by Assessing Their Surface Quality. *Waste Biomass Valor* **13**, 739–753 (2022). <https://doi.org/10.1007/s12649-021-01513-y>
2. Nicoleta E. Dina, Cristina M. Muntean, Ioan Bratu, Andreea Tican, Adela Halmagyi, Monica A. P. Purcaru, Ana Coste, Structure and surface dynamics of genomic DNA as probed with surface-enhanced Raman spectroscopy: Trace level sensing of nucleic acids extracted from plants, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, Volume 279,2022,

Diana Savin

1. Piciu D, Savin D. Residuated Lattices with Noetherian Spectrum. *Mathematics*. 2022; 10(11):1831. <https://doi.org/10.3390/math10111831>

2. C. Flaut, D. Savin, Some properties of the norm in a division quaternion algebra, *Mathematical Methods in the Applied Sciences*, Volume 45, Issue 18, Special Issue: IECMSA 2020 - International Eurasian Conference on Mathematical Sciences and Applications, December 2022, Pages 12077-12088

3. V. Acciaro, D. Savin, M. Taous, A. Zekhnini, On quaternion algebras that split over specific quadratic number fields, *Italian Journal of Pure and Applied Mathematics*, N. 47–2022 (91–107)

4. Diana Savin, Some diagonalizable matrices, connected with difference equations of degree 3, *Journal of Discrete Mathematical Sciences and Cryptography*, vol. 25, 8, 2022, 2765-2771

Anca Vasilescu

1. Aldea CL, Bocu R, Vasilescu A. Relevant Cybersecurity Aspects of IoT Microservices Architectures Deployed over Next-Generation Mobile Networks. *Sensors*. 2023; 23(1):189. <https://doi.org/10.3390/s23010189>

2. Bocu R, Vasilescu A, Duca Iliescu DM. Personal Health Metrics Data Management Using Symmetric 5G Data Channels. *Symmetry*. 2022; 14(7):1387. <https://doi.org/10.3390/sym14071387>

Bianca Vasian

1. Nicoleta Voicu, Stefan Garoiu, Bianca Vasian, On the closure property of Lepage equivalents of Lagrangians, *Differential Geometry and its Applications*, Volume 81, 2022,

Nicoleta Voicu

1. Manuel Hohmann, Christian Pfeifer *and* Nicoleta Voicu, Mathematical foundations for field theories on Finsler spacetimes, *J. Math. Phys.* 63, 032503(2022); <https://doi.org/10.1063/5.0065944>

2. Nicoleta Voicu, Stefan Garoiu, Bianca Vasian, On the closure property of Lepage equivalents of Lagrangians, *Differential Geometry and its Applications*, Volume 81, 2022,

<https://doi.org/10.1016/j.difgeo.2022.101852>.