



# RAPORT

## privind cercetarea științifică în anul 2013

### I. ARTICOLE PUBLICATE ÎN REVISTE COTATE **ISI WEB OF SCIENCE**

1. V. Barbu, *The variational approach to Hamilton-Jacobi equations driven by a Gaussian noise*, Journal Of Differential Equations, 0022-0396, 255, pp. 3832-3847, F.I. 1.480
2. V. Barbu, *Note on the Internal Stabilization of Stochastic Parabolic Equations with Linearly Multiplicative Gaussian Noise*, ESAIM-Control Optimisation and Calculus of Variations, 1292-8119, 19, pp. 1055-1063, F.I. 1.282, SRI 1.038
3. V. Barbu, *Self-organized criticality of cellular automata model; absorbtion in finite-time of supercritical region into the critical one*, Mathematical Methods in the Applied Sciences, 0170-4214, 36 pp., 1726-1733, F.I. 0.778, SRI 0.506
4. V. Barbu, *Boundary Stabilization of Equilibrium Solutions to Parabolic Equations*, IEEE Transactions on Automatic Control, 0018-9286, 58, pp. 2416-2420, F.I. 2.718, SRI 1.54
5. V. Barbu, Rockner, M., *Stochastic Variational Inequalities and Applications to the Total Variation Flow Perturbed by Linear Multiplicative Noise*, Archive for Rational Mechanics and Analysis, 0003-9527, 209, pp. 797-834, F.I. 2.292, SRI 2.31
6. V. Barbu, Rockner, M., *The finite speed of propagation for solutions to nonlinear stochastic wave equations driven by multiplicative noise*, Journal of Differential Equations, 0022-0396, 255, pp. 560-571, F.I. 1.480, SRI 1.278
7. V. Barbu, *The internal stabilization of the Stokes-Oseen equation by feedback point controllers*, SYSTEMS & CONTROL LETTERS, 0167-6911, 62, pp. 447-450, F.I. 1.667, SRI 1.048.
8. V. Barbu, Brzezniak, Z, Hausenblas, E, Tubaro, L, *Existence and convergence results for infinite dimensional nonlinear stochastic equations with multiplicative noise*, Stochastic Processes and their Applications, 0304-4149, 123, pp. 934-951, F.I. 0.953, SRI 1.293.
9. I. Vrabie, *Almost periodic solutions for nonlinear delay evolutions with nonlocal initial conditions*, J. Evol. Equ., 1424-3199, 13, pp.693-714, F.I. 0.788, SRI 1.282
10. I. Vrabie, *Delay evolution equations with mixed nonlocal plus local initial conditions*, Commun. Contemp. Math., 0219-1997, 2013, DOI:0.1142/S0219199713500351, F.I. 0.753, SRI 1.442
11. I. Lorenzi, I. Vrabie, *Identification of a Source Term in a Semilinear Evolution Delay Equation*, An. Stiint. Univ. Al. I. Cuza Iasi (n.s.), 1221-8421 2013, 10.2478/aicu-2013-0003, F.I. 0.180

12. I. Bucătaru, *A Setting for Higher Order Differential Equation Fields and Higher Order Lagrange and Finsler Spaces*, Journal of Geometric Mechanics, 1941-4889, 5 Issue: 3, pp. 257-279, F.I. 1.182, SRI 1.015
13. I. Bucătaru, Muzsnay, Zoltan, *Sprays metrizable by Finsler functions of constant flag curvature*, Differential Geometry and its Applications, 0926-2245, 31 Issue: 3, pp.405-415, F.I. 0.484, SRI 0.818
14. M. Durea, R. Strugariu and C. Tammer, *Scalarization in geometric and functional vector optimization revisited*, Journal of Optimization Theory and Applications, 0022-3239, 159, pp.635-655, F.I. 1.423, SRI 1.119
15. M. Durea, H. T. Nguyen and R. Strugariu, *Metric regularity of epigraphical multivalued mappings and applications to vector optimization*, Mathematical Programming 0025-5610, 139, pp.139-159, F.I. 2.090, SRI 3.818, 2.067
16. M. Durea, R. Strugariu, *Calculus of tangent sets and derivatives of set-valued maps under metric subregularity conditions*, Journal of Global Optimization, 0925-5001, 56, pp. 587-603, F.I. 1.307, SRI 1.106
17. M. Durea, M. Apetrii and R. Strugariu, *On subregularity properties of set-valued mappings. Applications to solid vector optimization*, Set-valued and Variational Analysis, 1877-0533, 21, pp. 93-126, F.I. 1.036, SRI 0.419, 0.799
18. M. Bîrsan, P. Neff, *Existence theorems in the geometrically non-linear 6-parameter theory of elastic plates*, Journal of Elasticity, 0374-3535, vol. 112, pp. 185-198, F.I. 1.038, SRI 2.201
19. M. Bîrsan, T. Sadowski, L. Marsavina, E. Linul, D. Pietras, *Mechanical behavior of sandwich composite beams made of foams and functionally graded materials*, International Journal of Solids and Structures, 0020-7683, vol. 50, pp. 519-530, F.I. 1.871, SRI 1.822
20. M. Bîrsan, T. Sadowski, D. Pietras, *Thermoelastic deformations of cylindrical multi-layered shells using a direct approach*, Journal of Thermal Stresses, 0149-5739, vol. 36, pp. 749-789, F.I. 0.734, SRI 0.762
21. M. Bîrsan, P. Neff, J. Lankeit, *Sum of squared logarithms - An inequality relating positive definite matrices and their matrix logarithm*, Journal of Inequalities and Applications, 1029-242X, 2013 : 168, pp. 1-16, F.I. 0.820, SRI 0.512
22. A. Blaga, M. Crasmăreanu, *The geometry of product conjugate connections*, An. Stiint. Univ. Al. I. Cuza Iasi Math, 1221-8421, 59, no. 1, pp. 73-84, F.I. 0.188
23. A. Călin, M. Crasmăreanu, *Slant curves and particles in 3-dimensional warped product and their Lancret invariants*, Bull. Austral. Math. Society, 0004-9727, 88, no. 1, pp. 128-142, F.I. 0.480, SRI 0.410
24. M. Crăsmăreanu, C.E. Hretcanu, M.I. Munteanu, *Golden and product shaped hypersurfaces in real space forms*, Int. J. Geom. Methods Mod. Phys., 0219-8878, 10, no. 4, F.I. 0.951, SRI 0.621
25. C.-L. Bejan, M. Crăsmăreanu, *Weakly-symmetry of the Sasakian lifts on tangent bundles*, Publicationes Mathematicae Debrecen, 0033-3883, 83, no. 1-2, pp. 63-69, F.I. 0.322, SRI 0.534
26. C. Călin, M. Crăsmăreanu, *Slant curves in 3-dimensional normal almost contact geometry*, Mediteranean J. Math., 1660-5446, 10, no. 2, pp. 1067-1078, F.I. 0.641, SRI 0.657

27. C.E. Hreţcanu, M. Crâşmăreanu, *Metallic structures on Riemannian manifolds*, Revista Union Matematica Argentina, 0041-6932, 54, no. 2, pp. 15-27, F.I. 0.343
28. Xueling Ma, Jianming Zhan, V. Leoreanu-Fotea, *On (fuzzy) isomorphism theorems of soft Gamma-hypermodules*, U.P.B. Sci. Bull., series A, 1223-7027, 75, Iss. 1, pp. 65-76, F.I. 0.300
29. V. Leoreanu-Fotea, J. Zhan, L. Leoreanu, *Fuzzy Gamma-hyperrings and Fuzzy Gamma-hypermodules*, Journal of Intelligent and Fuzzy Systems, 1064-1246, Vol.24, n. 3, pp. 647-655, F.I. 0.788, SRI 0.437
30. Y. Yin, J. Zhan, V. Leoreanu-Fotea, S. Rasouli, *General Forms of  $(\alpha, \beta)$ -Fuzzy Subhypergroups of Hypergroups*, J. of Mult.-valued Logic & Soft Computing, 1542-3980, Vol.21, no1-2, pp. 001-024, SRI 0.363
31. C. Văideanu, *Lower and Upper Concept Lattices*, Annals of the Alexandru Ioan Cuza University – Mathematics, 1221-8421 DOI: 10.2478/aicu-2013-0024, November 2013, pp. 26–41, F.I. 0.188
32. M. Apetrii, Marius Durea, Radu Strugariu, *On Subregularity Properties of Set-Valued Mappings*, Set-Valued Var Anal, 1877-0533, 21 (1), pp. 93-126, F.I. 0.791, SRI 0.419
33. M.I. Munteanu, *Magnetic curves in the Euclidean space: one example, several approaches*, Publications de l'Institut Mathematique (Beograd), 0350-1302, 94 (108), pp. 141-150, F.I. 0.1950
34. M.I. Munteanu, B.Y.Chen, *Biharmonic ideal hypersurfaces in Euclidean spaces*, Differential Geometry and its Applications, 0926-2245, 31, pp. 1-16, F.I. 0.484, SRI 0.818
35. S. Chiriţă, *On the Rayleigh surface waves on an anisotropic homogeneous thermoelastic half space*, Acta Mechanica, 0001—5970, 224, pp. 657-674, F.I. 1.247, SRI 0.892
36. S. Chiriţă, *Thermoelastic surface waves on an exponentially graded half space*, Mechanics Research Communications, 0093—6413, 49, pp. 27-35, F.I. 1.324, SRI 0.926, 0.545
37. S. Chiriţă, *Rayleigh waves on an exponentially graded poroelastic half space*, Journal of Elasticity, 0374—3535, 110, pp. 185—199, F.I. 1.038, SRI 2.201
38. S. Chiriţă, M. Ciarletta, *Some non-standard problems related with the mathematical model of thermoelasticity with microtemperatures*, Journal of Thermal Stresses, 0149—5739, 36, pp. 517—537, F.I. 0.734, SRI 7.617
39. M. Volle, C. Zălinescu, *Strongly adequate functions on Banach spaces*, J Convex Anal, 0944-6532, 20, pp. 655-668, F.I. 0.823, SRI 1.11253
40. A. Zălinescu, *On the differentiability of the support function*, J Global Optim, 0925-5001, 57, pp. 719–731, F.I. 1.196, SRI 1.10618
41. M. Volle, J.-B. Hiriart-Urruty, C. Zălinescu, *When some variational properties force convexity*, Esaim Contr Optim, 1292-8119, 19, pp. 701–709, F.I. 0.758, SRI 2.32007
42. M.D. Voisei, C. Zălinescu, *Counterexamples to a triality theorem for quadratic-exponential minimization problems*, Math Method Oper Res, 1432-2994, 77, pp. 227–237, F.I. 0.481, SRI 0.99841
43. A. Zălinescu, *On some extension theorems for set-valued mappings*, Nonlinear Anal-Theor, 0362-546X, 88, pp. 24-26, F.I. 1.536, SRI 0.87732

44. N. M. Nam, C. Zălinescu, *Variational analysis of directional minimal time functions and applications to location problems*, Set-Valued Var Anal, 1877-0533, 21, pp. 405-430, F.I. 0.791, SRI 0.41925
45. O. Cârjă, T. Donchev, V. Postolache, *Nonlinear evolution inclusions with one-sided perron right-hand side*, Journal of Dynamical and Control Systems, 1079-2724, 19 (3), pp. 439-456, F.I. 0.462, SRI 0.9204771
46. I.D. Ghiba, C. Galeş, *Some qualitative results in the linear theory of micropolar solid-solid mixtures*, Journal of Termal Stresses, 0149-5739, 36, pp. 426-445, F.I. 0.734, SRI 0.761
47. I.D. Ghiba, *On the temporal behaviour in the bending theory of porous thermoelastic plates*, Zamm-z angew math me, 0044-2267, 93, pp. 284-296, SRI 0.732, 0.468
48. I.D. Ghiba, *On the spatial bahaviour in bending theory of porous thermoelastic plates*, J Math Anal Appl, 0022-247X, 403, pp., 129-142, SRI 1.115
49. M. Tărnăuceanu, *A note on the product of element orders of finite abelian groups*, Bulletin of the Malaysian Mathematical Sciences Society, 0126-6705, 36, nr. 4, pp. 1123-1126, F.I. 0.798
50. M. Tărnăuceanu, *Some combinatorial aspects of finite Hamiltonian groups*, Bulletin of the Iranian Mathematical Society, 1735-8515, 39 , nr. 5, pp. 841-854, F.I. 0.223
51. M. Tărnăuceanu, *Erratum to "Solitary quotients of finite groups"*, Central European Journal of Mathematics, 1895-1074, 11, nr. 2, pp. 376-377, F.I. 0.405
52. M. Tărnăuceanu, *A characterization of the quaternion group*, Analele Stiintifice ale Universităţii "Ovidius" Constanţa, 1224-1784, XXI, f1, pp. 209-214, F.I. 0.221
53. M. Tărnăuceanu, *On the number of fuzzy subgroups of finite symmetric groups*, Journal of Multiple-Valued Logic and Soft Computing, 1542-3980, 21, nr. 1-2, pp. 201-213, F.I. 1.047, SRI 0.363
54. I. Munteanu, *Boundary feedback stabilization of periodic fluid flows in a magnetohydrodynamic channel*, IEEE Transactions on Automatic Control, 0018-9286, 58, pp. 2119 – 2125, F.I. 2.718, SRI 3.214
55. I. Munteanu, *Normal feedback stabilization for linearized periodic MHD channel flow, at low magnetic Reynolds number*, Systems & Control Letters, 0167-6911, 62, pp. 55-62, F.I. 2.054, SRI 2.408
56. S. L. Druţă-Romaniuc, *Riemannian almost product and para-hermitian cotangent bundles of general natural lift type*, Acta Math. Hung., 0236-529, 139, 3, pp. 228-244, F.I. 0.340, SRI 0.450
57. S. L. Druţă-Romaniuc, Munteanu, M.I., *Killing magnetic curves in a Minkowski 3-space*, Nonlinear Anal-Real, 1468-1218, 14, 1, pp. 383-396, F.I. 2.200, SRI 1.030
58. S. L. Druţă-Romaniuc, Bejan, C.L., *Harmonic almost complex structures with respect to general natural metrics*, Mediterr. J. Math., 1660-5454, DOI :10.1007/s00009-013-0302-0, F.I. 0.640, SRI 1.660
59. A. Lazu, V. Postolache, *Necessary and sufficient conditions for approximate strong invariance for semilinear differential inclusions*, Quaestiones Mathematicae, 1607-3606, 36 (1), pp. 001-013, F.I. 0.224, SRI 0.373

60. C. Oniciuc, A. Balmuş, S. Montaldo, *Biharmonic PNMC submanifolds in spheres*, Ark. Mat., 0004-2080, 51, no. 2, pp. 197–221, F.I. 0.674, SRI 1.172
61. C. Oniciuc, D. Fetcu, *Biharmonic submanifolds with parallel mean curvature in  $S_n \times R$* , J. Geom. Anal. 1050-6926, 23, no. 4, pp. 2158–2176, F.I. 0.864, SRI 1.820
62. S. Anița, Capasso V., Kunze H., La Torre D., *Optimal control and long-run dynamics for a spatial economic growth model with physical capital accumulation and pollution diffusion*, Applied Mathematics Letters, 0893-9659, 26, pp. 908-912, F.I. 1.501, SRI 0.558
63. L.I. Anita, Anița S; Arnăutu V., *Internal null stabilization for some diffusive models of population dynamics*, Applied Mathematics and Computation, 0096-3003, 219, pp. 10231-10244, F.I. 1.349, SRI 0.437
64. M. Turinici, *Functional contractive maps in triangular symmetric spaces*, J. Math. 2013.
65. M. Turinici, *Linear contractions in product ordered metric spaces*, Ann. Univ. Ferrara, 59, pp. 187-198.

## II. ARTICOLE PUBLICATE ÎN REVISTE STRĂINE DIN FLUXUL PRINCIPAL DE PUBLICAȚII INDEXATE BDI

1. M. Bîrsan, H. Altenbach, *On the Cosserat model for thin rods made of thermoelastic materials with voids*, Discrete and Continuous Dynamical Systems - Series S, ISI (fara factor de impact), Vol. 6, no. 6, AIMS, 1473-1485, 1937-1632, <http://aims sciences.org/journals/home.jsp?journalID=15>
2. M. Jafarpour, V. Leoreanu-Fotea, A. Zolfaghari, *Weak complete parts in semihypergroups*, Iranian J. of Mathematical Sci. and Informatics, vol.8, n.2, 101-109, 1735-4463, <http://www.ijmsi.ir/>
3. Kostaq Hila, Krisanthi Naka, Violeta Leoreanu-Fotea, Sabri Sadiku, *Algebraic hyperstructures of soft sets associated with ternary semihypergroups*, Italian Journal of Pure and applied Mathematics, n.30, 349-372, 2239-0227, <http://ijpam.uniud.it/journal/home.html>
4. M. Tărnăuceanu, *Classifying fuzzy subgroups for a class of finite  $p$ -groups*, Critical Review (a publication of Society for Mathematics F15 of Uncertainty), vol. VII, ZBL, 30-39, 0-471-35374-5
5. I. Tofan, *On some problems in Fuzzy Sets Theory*, Global Journal of Science Frontier Research, nr. 8, vol. 13 v.1.0, Global Journals Inc., 71-77, 0975-5896.

## III. ARTICOLE PUBLICATE ÎN REVISTE DE SPECIALITATE RECUNOSCUTE CNCSIS

1. M. Boleantu, M. Crâșmăreanu, *New aspects in the use of canonoid transformations*, Studia U. Babeș-Bolyai. Ser. Math., 58(2013), no. 4, Math. Reviews., Zentralblatt, B, 437-444, 0252-1938
2. M. Tărnăuceanu, Dan Gregorian Fodor, *Counting certain sublattices in the subgroup lattice of a finite abelian group*, Analele Științifice ale Universității Craiova, vol. 40, nr. 1, MR, ZBL, B+, 106-111, 1223-6934

#### IV. ARTICOLE PUBLICATE ÎN **PROCEEDINGS-URI** ALE CONFERINȚELOR

1. M. Bîrsan, P. Neff, *Shells Structures: Theory and Applications*, 3, 61-64, 978-1-138-00082-7, <http://www.ssta.pg.gda.pl>
2. M.I. Munteanu, A.I. Nistor, *Magnetic trajectories in a non-flat R5 have order 5*, Proceedings of the conference Pure and Applied Differential Geometry, 224-231, 978-3-8440-2363-3 <https://wis.kuleuven.be/events/padge2012>

#### V. **CĂRȚI** PUBLICATE LA EDITURI **NAȚIONALE**

1. Tofan Ioan, *Itinerarii matematice*, Editura Alexandru Myller Iasi, 978-973-88565-9-2, 2013.
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#### VI. **CĂRȚI ȘI CAPITOLE DE CĂRȚI** PUBLICATE LA EDITURI **INTERNAȚIONALE**

1. M. Bîrsan, V. Eremeyev, *Cosserat-type rods*, in **Generalized Continua from the Theory to Engineering Applications**, H. Altenbach (Ed.), Springer, Austria, Viena, 179-248, 978-3-7091-1370-7

#### VII. **PREMII ȘI DISTINCȚII** ACADEMICE **NAȚIONALE ȘI INTERNAȚIONALE**

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- [9]. PN-II-RU-TE-184, 86/30.07.2010  
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