



RAPORT PRIVIND ACTIVITATEA DE CERCETARE ȘTIINȚIFICĂ ÎN ANUL 2014

I. ARTICOLE PUBLICATE ÎN REVISTE COTATE ISI WEB OF SCIENCE

1. Anița, Sebastian; Casas, Jérôme; Suppo, Christelle, *Impulsive spatial control of invading pests by generalist predators*. *Math. Med. Biol.* 31 (2014), no. 3, 284–301.
2. Anița, S., *Zero-stabilization for some diffusive models with state constraints*. *Math. Model. Nat. Phenom.* 9 (2014), no. 4, 6–19.
3. Barbu, Viorel; Roeckner, Michael; Zhang, Deng, *Stochastic Nonlinear Schrödinger Equations with Linear Multiplicative Noise: Rescaling Approach*, *Journal of Nonlinear Science*, 24 (2014), 383-409.
4. Barbu, Viorel; Bonaccorsi, Stefano; Tubaro, Luciano, *Existence and Asymptotic Behavior for Hereditary Stochastic Evolution Equations*, *Applied Mathematics and Optimization*, 69 (2014), 273-314.
5. Barbu, Viorel; Bonaccorsi, Stefano; Tubaro, Luciano, *A stochastic parabolic equation with nonlinear flux on the boundary driven by a Gaussian noise*, *SIAM Journal on Mathematical Analysis*, 46 (2014), 780-802.
6. Barbu, Viorel, *Exact null internal controllability for the heat equation on unbounded convex domains*, *ESAIM-Control Optimisation and Calculus of Variations*, 20 (2014), 222-235.
7. Anastasiei, Mihai; Peter, Ioan Radu, *A compactness theorem in Finsler geometry*, *Publicationes Mathematicae-Debrecen*, 84 (2014), 75-88.
8. Bucataru, Ioan; Muzsnay, Zoltán, *Finsler metrizable isotropic sprays and Hilbert's fourth problem*. *J. Aust. Math. Soc.* 97 (2014), no. 1, 27–47.
9. Cârjă, Ovidiu; Donchev, Tzanko; Postolache, Victor, *Relaxation Results for Nonlinear Evolution Inclusions with One-sided Perron Right-hand Side*. *Set-Valued Var. Anal.* 22 (2014), no. 4, 657–671.
10. Cârjă, O.; Lazu, A. I., *How mild can slow controls be?* *Math. Control Signals Systems* 26 (2014), no. 4, 547–562.
11. Cârjă, Ovidiu; Lazu, Alina I., *On the continuity of the state constrained minimal time function*, *Electron. J. Qual. Theory Differ. Eqs.* 2014, No. 48, 16 pp.

12. Cârjă, O.; Donchev, T.; Rafaqat, M.; Ahmed, R., *Viability of fractional differential inclusions*. Appl. Math. Lett. 38 (2014), 48–51.
13. Chiriță, Stan, *Spatial behavior in the vibrating thermoviscoelastic porous materials*. Discrete Contin. Dyn. Syst. Ser. B 19 (2014), no. 7, 2027–2038.
14. Chiriță, Stan; Ciarletta, Michele; Tibullo, Vincenzo, *Rayleigh surface waves on a Kelvin-Voigt viscoelastic half-space*. J. Elasticity 115 (2014), no. 1, 61–76.
15. Durea, Marius; Strugariu, Radu, *Scalarization of constraints system in some vector optimization problems and applications*. Optim. Lett. 8 (2014), no. 7, 2021–2037.
16. Apetrii, Marius; Durea, Marius; Strugariu, Radu, *A new penalization tool in scalar and vector optimizations*. Nonlinear Anal. 107 (2014), 22–33.
17. Durea, Marius; Strugariu, Radu, *Chain rules for linear openness in metric spaces and applications*. Math. Program. 143 (2014), no. 1-2, Ser. A, 147–176.
18. Durea, Marius; Huynh, Van Ngai; Nguyen, Huu Tron; Strugariu, Radu, *Metric regularity of composition set-valued mappings: metric setting and coderivative conditions*. J. Math. Anal. Appl. 412 (2014), no. 1, 41–62.
19. Iesan, D., *Fundamental solutions for chiral solids in gradient elasticity*, Mechanics Research Communications, 61 (2014), 47-52.
20. Iesan, Dorin, *Strain gradient theory of porous solids with initial stresses and initial heat flux*, Discrete and Continuous Dynamical Systems-Series B, 19 (2014), 2169-2187.
21. Iesan, D., *Deformation of thin chiral plates in strain gradient elasticity*, European Journal of Mechanics A-Solids, 44 (2014), 212-221.
22. Iesan, D.; Quintanilla, R., *On a theory of thermoelastic materials with a double porosity structure*, Journal of Thermal Stresses, 37 (2014), 1017-1036.
23. Feng, F.; Akram, M.; Davvaz, B.; Leoreanu-Fotea, V., *Attribute analysis of information systems based on elementary soft implications*, 70 (2014), 281-292.
24. Ersoy, B.A.; Davvaz, B.; Onar, S.; Leoreanu-Fotea, V., *Fuzzy Gamma-Hyperideals in Gamma-Hypersemirings by Using Triangular Norms*, Scientific World Journal, 428635, 2014.
25. Leoreanu-Fotea, Violeta; Davvaz, Bijan; Feng, Feng, *Fuzzy Γ -hypergroups*, J. Intell. Fuzzy Systems 26 (2014), no. 4, 1593–1600.
26. Mirvakili, S.; Davvaz, B.; Leoreanu Fotea, V., *A note on New fundamental relation of hyperrings*. European J. Combin. 41 (2014), 258–261.
27. Khan, Madad; Leoreanu-Fotea, Violeta; Kokab, Syeda, $\epsilon_\gamma, \epsilon_\gamma \vee q_\delta$ -fuzzy right ideals of intra-regular Abel Grassmann's-groupoids. An. Ştiinţ. Univ. "Ovidius" Constanţa Ser. Mat. 22 (2014), no. 3, 95–113.
28. Leoreanu-Fotea, Violeta; Davvaz, Bijan; Feng, Feng; Chiper, Codrina, *Join spaces, soft join spaces and lattices*. An. Ştiinţ. Univ. "Ovidius" Constanţa Ser. Mat. 22 (2014), no. 1, 155–167.

29. Davvaz, Bijan; Leoreanu-Fotea, Violeta, *Triangular fuzzy sub Gamma-semihypergroups in Gamma-semihypergroups*, Kuwait Journal of Science, 41 (2014), 93-106.
30. Burgos Gil, José Ignacio; Freixas i Montplet, Gerard; Lițcanu, Răzvan, *Generalized holomorphic analytic torsion*. J. Eur. Math. Soc. (JEMS) 16 (2014), no. 3, 463–535.
31. Loubeau, Eric; Oniciuc, Cezar, *Biharmonic surfaces of constant mean curvature*. Pacific J. Math. 271 (2014), no. 1, 213–230.
32. Caddeo, R.; Montaldo, S.; Oniciuc, C.; Piu, P., *Surfaces in three-dimensional space forms with divergence-free stress-bienergy tensor*. Ann. Mat. Pura Appl. (4) 193 (2014), no. 2, 529–550.
33. Maticiuc, Lucian; Rășcanu, Aurel; Zălinescu, Adrian; *Backward Stochastic Variational Inequalities with Locally Bounded Generators*. An. Științ. Univ. Al. I. Cuza Iași. Mat. (N.S.) 60 (2014), no. 2, 503–526.
34. Rășcanu, Aurel; Rotenstein, Eduard, *A non-convex setup for multivalued differential equations driven by oblique subgradients*. Nonlinear Anal. 111 (2014), 82–104.
35. Argoubi, Hajer; Samet, Bessem; Turinici, Mihai, *Fixed point results on a metric space endowed with a finite number of graphs and applications*, Czechoslovak Mathematical Journal, 64 (2014), 241-250.
36. Turinici, Mihai, *Contractive Maps in Locally Transitive Relational Metric Spaces*, Scientific World Journal, 2014, Article Number 169358.
37. Lorenzi, Alfredo; Vrabie, Ioan I., *An identification problem for a semilinear evolution delay equation*. J. Inverse Ill-Posed Probl. 22 (2014), no. 2, 209–244.
38. Burlică, Monica-Dana; Roșu, Daniela; Vrabie, Ioan I., *Abstract reaction-diffusion systems with nonlocal initial conditions*. Nonlinear Anal. 94 (2014), 107–119.
39. Zălinescu, Constantin, *A critical view on invexity*. J. Optim. Theory Appl. 162 (2014), no. 3, 695–704.
40. Bîrsan, Mircea; Neff, Patrizio, *Existence of minimizers in the geometrically non-linear 6-parameter resultant shell theory with drilling rotations*. Math. Mech. Solids 19 (2014), no. 4, 376–397.
41. Bîrsan, Mircea; Neff, Patrizio, *Shells without drilling rotations: a representation theorem in the framework of the geometrically nonlinear 6-parameter resultant shell theory*. Internat. J. Engrg. Sci. 80 (2014), 32–42.
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43. Crasmareanu, Mircea, *New Tools In Finsler Geometry: Stretch And Ricci Solitons*, Mathematical Reports , 16 (2014), 83-93.
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45. Bejan, Cornelia Livia; Crasmareanu, Mircea, *Second order parallel tensors and Ricci solitons in 3-dimensional normal paracontact geometry*. Ann. Global Anal. Geom. 46 (2014), no. 2, 117–127.
46. Blaga, A. M.; Crasmareanu, M. *A class of almost tangent structures in generalized geometry*. Balkan J. Geom. Appl. 19 (2014), no. 2, 23–35.
47. Blaga, Adara M.; Crasmareanu, Mircea; Ida, Cristian *Poisson and Hamiltonian structures on complex analytic foliated manifolds*. J. Geom. Phys. 78 (2014), 19–28.
48. Celletti, Alessandra; Galeş, Cătălin; *On the Dynamics of Space Debris: 1:1 and 2:1 Resonances*. J. Nonlinear Sci. 24 (2014), no. 6, 1231–1262.
49. Galeş, C.; Baroiu, N., *On the bending of plates in the electromagnetic theory of microstretch elasticity*. ZAMM Z. Angew. Math. Mech. 94 (2014), no. 1-2, 55–71.
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51. Inoguchi, Jun-ichi; Munteanu, Marian Ioan, *Magnetic maps*. Int. J. Geom. Methods Mod. Phys. 11 (2014), no. 6, 1450058, 22 pp.
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53. Munteanu, Marian Ioan; Nistor, Ana Irina, *A note on magnetic curves on S^{2n+1}* . C. R. Math. Acad. Sci. Paris 352 (2014), no. 5, 447–449.
54. Fu, Yu; Munteanu, Marian Ioan, *Generalized constant ratio surfaces in E^3* . Bull. Braz. Math. Soc. (N.S.) 45 (2014), no. 1, 73–90.
55. Munteanu, Marian Ioan, *The Landau-Hall problem on canal surfaces*. J. Math. Anal. Appl. 414 (2014), no. 2, 725–733.
56. Munteanu, Marian Ioan; Vrancken, Luc, *Minimal contact CR submanifolds in S^{2n+1} satisfying the $\delta(2)$ -Chen equality*. J. Geom. Phys. 75 (2014), 92–97.
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58. Tărnăuceanu, Marius *The normal subgroup structure of ZM-groups*. Ann. Mat. Pura Appl. (4) 193 (2014), no. 4, 1085–1088.
59. Tărnăuceanu, Marius; Fodor, Dan Gregorian, *On the sum of element orders of finite abelian groups*. An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.) 60 (2014), no. 1, 1–7.
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63. Croitoru, Anca, *Convergences and topology via sequences of multifunctions*. Inform. Sci. 282 (2014), 250–260.

64. Agop, Maricel; Gavrilut, Alina; Crumpei, Gabriel et al., *Informational Non-Differentiable Entropy and Uncertainty Relations in Complex Systems*, *Entropy*, 16 (2014), 6042-6058.
65. Gavriluț, Alina Cristiana, *Remarks on monotone interval-valued set multifunctions*. *Inform. Sci.* 259 (2014), 225–230. 28Exx
66. Neff, Patrizio; Ghiba, Ionel-Dumitrel; Madeo, Angela; Placidi, Luca; Rosi, Giuseppe, *A unifying perspective: the relaxed linear micromorphic continuum*. *Contin. Mech. Thermodyn.* 26 (2014), no. 5, 639–681.
67. Lorenzi, Alfredo; Munteanu, Ionuț, *Recovering a constant in the two-dimensional Navier-Stokes system with no initial condition*. *Appl. Math. Optim.* 70 (2014), no. 2, 309–344.
68. Munteanu, Ionuț, *Boundary stabilization of the phase field system by finite-dimensional feedback controllers*. *J. Math. Anal. Appl.* 412 (2014), no. 2, 964–975.
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II. ARTICOLE PUBLICATE ÎN REVISTE STRĂINE DIN FLUXUL PRINCIPAL DE PUBLICAȚII INDEXATE BDI

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2. Anastasiei, Mihai, *Courant algebroid structures on Banach vector bundles*. *ROMAI J.* 10 (2014), no. 1, 1–9.
3. Anastasiei, Mihai; Gîrțu, Manuela, *Einstein equations in Lie algebroids*. *Sci. Stud. Res. Ser. Math. Inform.* 24 (2014), no. 1, 5–16.
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5. Burgos Gil, José Ignacio; Freixas i Montplet, Gerard; Lițcanu, Răzvan, *The arithmetic Grothendieck-Riemann-Roch theorem for general projective morphisms*. *Ann. Fac. Sci. Toulouse Math. (6)* 23 (2014), no. 3, 513–559.
6. Montaldo, S.; Oniciuc, C.; Ratto, A., *Biharmonic immersions into spheres and ellipsoids*. *Rev. Roumaine Math. Pures Appl.* 59 (2014), no. 4, 425–442.
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9. Crasmareanu, Mircea, *Adapted metrics and Webster curvature on three classes of 3-dimensional geometries*. *Int. Electron. J. Geom.* 7 (2014), no. 2, 37–46.
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11. Tărnăuceanu, Marius, *Remarks on the exponent function associated to a finite group*. Sci. Stud. Res. Ser. Math. Inform. 24 (2014), no. 1, 141–147.

III. ARTICOLE PUBLICATE ÎN REVISTE DE SPECIALITATE RECUNOSCUTE CNCSIS

1. O. Cârjă, A. Lazu, *Estimates of slow controls*, European Scientific Journal, 2014, May 2014/Special Edition, pp. 172-176.
2. B. Davvaz, V. Leoreanu-Fotea, *Ternary hypergroups (A survey)*, Int. Journal of Algebraic Hyperstructures and its Applications Vol. 1, No. 1, (2014) pp. 29-44
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IV. ARTICOLE PUBLICATE ÎN PROCEEDINGS-URI ALE CONFERINȚELOR

1. P. Neff, I.D. Ghiba, J. Lankeit, R. Martin. *Rank-one convexity and polyconvexity of Hencky-type energies*, PAMM-Proc. Appl. Math. Mech. 14, pp. 735-736, 2014.
2. I.D. Ghiba, P. Neff, A. Madeo. *The relaxed micromorphic continuum model*, PAMM-Proc. Appl. Math. Mech. 14, pp. 733-734, 2014.

V. CĂRȚI ȘI CAPITOLE DE CĂRȚI PUBLICATE LA EDITURI INTERNAȚIONALE

1. Turinici, Mihai, *Contractive operators in relational metric spaces*, In *Handbook of functional equations. Functional Inequalities*, Rassias Themistocles M. (Ed.), 419–458, Springer Optim. Appl., 95, Springer, New York, 2014.
2. Turinici, Mihai, *Implicit contractive maps in ordered metric spaces*, In *Topics in mathematical analysis and applications*, Rassias Themistocles M., Tóth László (Eds.), 715–746, Springer Optim. Appl., 94, Springer, Cham, 2014.
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4. Catalin Gales, *Continuous Dependence Results*, vol. 2|C-D, pag. 714-721, In *Encyclopedia of Thermal Stresses*, R. Hetnarski (ed.), Springer, 2014.
5. Catalin Gales, *Hamilton-Kirchhoff Principle*, vol. 5|H-K, pag. 2109-2114, In *Encyclopedia of Thermal Stresses*, R. Hetnarski (ed.), Springer, 2014.
6. Catalin Gales, *Nonlinear Thermoelastic Model*, vol. 7|N-P, pag. 3377-3387, In *Encyclopedia of Thermal Stresses*, R. Hetnarski (ed.), Springer, 2014.
7. Catalin Gales, *Structural Stability in Linear Thermoelasticity*, vol. 8|Q-S, pag. 4688-4694, In *Encyclopedia of Thermal Stresses*, R. Hetnarski (ed.), Springer, 2014.

8. Catalin Gales, Uniqueness and Continuous Dependence Results in Nonlinear Thermoviscoelasticity, vol. 11|U-Z, pag. 6303-6311, In *Encyclopedia of Thermal Stresses*, R. Hetnarski (ed.), Springer, 2014.
9. I.D. Ghiba, Linear Thermoelastic Model, In *Encyclopedia of Thermal Stresses*, R. Hetnarski (ed.), pp. 2785-2794, Springer, 2014.
10. I.D. Ghiba, Boundary-Initial Value Problems of 3 Thermoelastodynamics, In *Encyclopedia of Thermal Stresses*, R. Hetnarski (ed.), pp. 468-474, Springer, 2014.
11. I.D. Ghiba, Partition of Energy. In *Encyclopedia of Thermal Stresses*, R. Hetnarski (ed.), pp. 3609-3616, Springer, 2014.
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VI. FONDURI ATRASE PENTRU CERCETARE DERULATE PRIN UNIVERSITATE (GRANTURI NAȚIONALE ȘI INTERNAȚIONALE)

[1]. ERC-Like 1ERC/2.07.2012 (DSPDE)

Suma derulată în 2014: 390.235,00 lei

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[2]. PN II IDEI, contractul 244/2011, cod PN-II-ID-PCE-2011-3-0154

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[3]. PN II IDEI 240/05.10.2011

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[4]. PN II IDEI nr. 241/05.10.2011

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[5]. PN-II-ID-PCE-2011-3-0084

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[6]. PN-II-ID-PCE-2012-3-0084

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Drd. Bianca Aramă – asistent cercetare

[7]. PN-II-ID-PCE-2012-4-0640

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[8]. PN-II-RU-TE-2011-3-0017

Suma derulată în 2014: 171.916,00 lei

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[9]. PN-II-RU-TE-2011-3-0108

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[10]. PN-II-ID-PCE-2012-4-0270

Suma derulată în 2014: 150.831,00 lei

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[11]. ICProCeM 672/2013 – UEFISCDI

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