



RAPORT

privind cercetarea științifică în anul 2012

I. ARTICOLE PUBLICATE ÎN REVISTE COTATE ISI WEB OF SCIENCE

1. P. Alegre, B.-Y. Chen, M.I. Munteanu, *Riemannian submersions, λ -invariants and Optimal inequality*, Annals of Global Analysis and Geometry, 0232-704X, 42, 317 – 331
2. H. Altenbach, M. Biršan, V.A. Eremeyev, *On a thermodynamic theory of rods with two temperature fields*, Acta Mechanica, 0001-5970, 223, 1583-1596
3. S. Anita, V. Capasso, *Stabilization of a reaction-diffusion system modelling a class of spatially structured epidemic systems via feedback control*, Nonlinear Analysis: Real World Applications, 1468-1218, 13 (2) (2012), 725-735
4. S. Anita, V. Capasso, *Stabilization of a reaction-diffusion system modelling malaria transmission*, Discrete and Continuous Dynamical Systems B, 1531-3492, 17 (6), (2012), 1673-1684
5. M. Apetrii, M. Durea, R. Strugariu, *On Subregularity Properties of Set-Valued Mappings Applications to Solid Vector Optimization*, Set-Valued Var. Anal, DOI 10.1007/s11228-012-0213-4, 21(2013)
6. G. Apreutesei, *Cauchy nets and convergent nets on semilinear topological spaces*, Topology and its Applications, 0166-8641, 159 (2012), 2922–2931
7. A. Balmus, C. Oniciuc, *Biharmonic submanifolds with parallel mean curvature vector field in spheres*, J. Math. Anal. Appl., 0022-247X, 386 (2) (2012), 619–630
8. A. Balmus, S. Montaldo, C. Oniciuc, *New results toward the classification of biharmonic submanifolds in S^n* , An. St. Univ. Ovidius Constanta, Seria Matematica, 1224-1784, 20 (2) (2012), 89–114
9. V. Barbu, G. Da Prato, L. Tubaro, *The Stochastic Reflection Problem in Hilbert Spaces*, Communications in Partial Differential Equations, 7 (2012), 352-367
10. V. Barbu, *The stochastic reflection problem with multiplicative noise*, Nonlinear Analysis, 75 (2012), 3964–3972
11. V. Barbu, I. Lasiecka, *The unique continuation property of eigenfunctions to Stokes–Oseen operator is generic with respect to the coefficients*, Nonlinear Analysis, 75 (2012), 4384–4397
12. V. Barbu, Giuseppe Da Prato, Michael Röckner, *Finite time extinction of solutions to fast diffusion equations driven by linear multiplicative noise*, J. Math. Anal. Appl., 389 (2012), 147–164
13. V. Barbu, *Optimal Control Approach to Nonlinear Diffusion Equations Driven by Wiener Noise*, J Optim Theory Appl., DOI 10.1007/s10957-011-9946-8 (2012)

14. M. Birsan, H. Altenbach, T. Sadowski, V. Eremeyev, D. Pietras, *Deformation analysis of functionally graded beams by the direct approach*, Composites Part B: Engineering, 1359-8368, 43,1315-1328
15. M. Birsan, H. Altenbach, *The Korn-type inequality in a Cosserat model for thin thermoelastic porous rods*, Meccanica, 0025-6455, 47, 789-794
16. Adara M. Blaga; M. Crasmareanu, *The geometry of complexe conjugate connections*, Hacetepe Journal of Mathematics and Statistics, 1303-5010, 41(2012), no. 1, 119-126
17. Bua, Lucia; Bucataru, Ioan; Salgado, Modesto, *Symmetries, Newtonoid Vector Fields and Conservation Laws in The Lagrangian K-Symplectic*, Formalism, Reviews in Mathematical Physics, 0129-055X, Volume: 24 Issue: 10, 2012, 24 p
18. Bucataru, Ioan; Dahl, Matias F., *k-parameter geodesic variations*, Journal of Geometry and Physics, 0393-0440, Volume: 62 Issue: 11, 2012, 2121-2132
19. I. Bucataru, Zoltán Muzsnay, *Projective and Finsler metrizable: parameterization-rigidity of the geodesics*, International Journal of Mathematics, 0129-167X, Vol. 23, No. 9, 2012, 15 p
20. J.I. Burgos Gil, G. Freixas, R. Lițcanu, *Hermitian structures on the derived category of coherent sheaves*, J. Math. Pures Appl., 0021-7824, 97, 424-459
21. C. Calin, M. Crasmareanu, M.I. Munteanu, *Slant curves in 3-dimensional f-Kenmotsu manifolds*, Journal of Mathematical Analysis and Applications, 0022-247X, 394, 400-407
22. O. Carja, A. Lazu, *Approximate weak invariance for differential inclusions in Banach spaces*, Journal of Dynamical and Control Systems, 18 (2012), no. 2, 215-227
23. O. Carja, A.I. Lazu, *Lower semi-continuity of the solution set for semilinear differential inclusions*, J. Math. Anal. Appl., 385 (2012), no. 2, 865–873
24. O. Carja; A.I. Lazu, *On the regularity of the solution map for differential inclusions*, Dynamic Systems and Applications, 21 (2012), 457-465
25. O. Carja, *The Minimum Time Function for Semilinear Evolutions*, SIAM J. Control Optim., 50 (2012), 1265–1282
26. S. Chirita, Ionel-Dumitrel Ghiba, *Rayleigh waves in Cosserat elastic materials*, International Journal of Engineering Science, 0020-7225, 51, 11 (117-127)
27. O. Constantinescu, *Formal integrability for the nonautonomous case of the inverse problem of the calculus of variations*, Symmetry, Integrability and Geometry: Methods and Applications, ISSN 1815-0659, 8, 059-076
28. O. Constantinescu, Mircea Crasmareanu, *WEYL_Subgeometry and its linear connections*, International Journal of Geometric Methods in Modern Physics, 0219-8878, 9, No. 5, 1250047- 1250062
29. M. Crasmareanu, *Almost Fedosov and metriplectic structures in the geometry of semisprays*, Filomat, 0354-5180, 26(2012), no. 1, 165-176
30. M. Crasmareanu, *Dirac structures arising from Lie integrability*, Int. J. Geom. Methods Mod. Phys, 0219-8878, 9(2012), no. 4, 1220005, 7 pages
31. M. Crasmareanu, I. Stoleriu, *Nonholonomic dynamics of second order and the Heisenberg spinning particle*, International Journal of Geometric Methods in Modern Physics, 0219-8878, 9, 1-8
32. M. Crasmareanu, *Nonlinear connections for conformal gauge theories on path-spaces and duality*, Publ. Mat. Debrecen, 0033 – 3883, 81(2012), no. 1-2, 167-177
33. M. Crasmareanu, *Rayleigh dissipation from the general recurrence of metrics in path spaces*, Nonlinear Analysis-Real World Applications, 1468-1218, 13(2012), no. 6, 1551-1561

34. M. Crasmareanu, *Recurrent metrics in the geometry of second order differential equations*, Bull. Iranian Math. Soc, 1017-060X, 38(2012), no. 2, 391-401
35. Croitoru A., *Fuzzy integral of measurable multifunctions*, Iranian Journal of Fuzzy Systems, 1735-0654, 9, No.4 (2012), 133-140
36. B. Davvaz, L. Zareyan, V. Leoreanu-Fotea, *(3,3)-Ary Differential Rings*, Mediterranean Journal of Mathematics, 1660-5446, 9, 357-378
37. B. Davvaz, Hassani Sadrabadi, E., Leoreanu-Fotea, V., *Atanassov's intuitionistic fuzzy grade of a sequence of fuzzy sets and join spaces determine*, Journal of Intelligent and Fuzzy Systems, 1064-1246, 23(1), 9-25
38. M. Durea, R. Strugariu, *Chain rules for linear openness in general Banach spaces*, SIAM Journal on Optimization, 1052-6234, 22
39. M. Durea, R. Strugariu, *Openness stability and implicit multifunction theorems. Applications to variational systems*, Nonlinear Analysis: Theory, Methods and Applications, 0362-546X, 75, 1246-1259
40. Fetcu, D., Oniciuc, Cezar, *Biharmonic integral C-parallel submanifolds in 7-dimensional Sasakian space forms*, Tohoku Math. J. (2), 0040-8735, 64 (2012), no. 2, 195-222.
41. Galeş, C., *Structural stability and convergence in piezoelectricity*, SIAM J. Appl. Math. 72 (2012), no. 6, 1856-1868.
42. Galeş, C., *Spatial behavior and continuous dependence results in the linear dynamic theory of magneto-electroelasticity*, J. Elasticity 108 (2012), no. 2, 209-223.
43. Galeş, C., *Some results in micromorphic piezoelectricity*, Eur. J. Mech. A Solids 31 (2012), 37-46.
44. Galeş, C., *A cartographic study of the phase space of the elliptic restricted three body problem. Application to the Sun-Jupiter-asteroid system*, Commun. Nonlinear Sci. Numer. Simul. 17 (2012), no. 12, 4721-4730.
45. Anouar Gassous, Aurel Rascanu, Eduard Rotenstein, *Stochastic variational inequalities with oblique subgradients*, Stochastic Processes and their Applications, ISSN 1895-1074, Volume 122, Issue 7, 2668-2700
46. A. Gavrilut, *Considerations on (pseudo-) convergences of sequences of measurable functions on monotone set multifunction space*, Annals of the Alexandru Ioan Cuza University - Mathematics, 1221-8421, LVIII, 85-104
47. A. Gavrilut, *Continuity properties and Alexandroff theorem in Vietoris topology*, Fuzzy Sets and Systems, 0165-0114, 194, 76-89.
48. Ionel-Dumitrel Ghiba, Catalin Gales, *On the fundamental solutions for micropolar fluid-fluid mixtures under steady state vibrations*, Applied Mathematics and Computation, 0096-3003, 219 (5), 11 (2749-2759)
49. D. Iesan, S. De Cicco, *A theory of chiral Cosserat elastic plates*, Journal of Elasticity, DOI 10.1007/s10659-012-9400-7
50. D. Iesan, *Deformation of chiral rods in the strain gradient theory of thermoelasticity*, European Journal of Mechanics-A/Solids, DOI:10.1016/j.euromechsol.2012.08.006
51. D. Iesan, R. Quintanilla, *Nonlinear deformations of porous elastic solids*, International Journal of Non-Linear Mechanics, DOI: 10.1016/j.ijnonlinmec.2012.08.005
52. D. Iesan, *On the torsion of inhomogeneous and anisotropic bars*, Mathematics and Mechanics of Solids, DOI:10.1177/1081286511433083

53. D. Iesan, R. Quintanilla, *Two-dimensional heat conduction in thermodynamics of continua with microtemperature distributions*, International Journal of Thermal Sciences 55(2012), 48-59
54. J. Inoguchi, R. Lopez, M.I. Munteanu, *Minimal translation surfaces in the Heisenberg group Nil³*, Geometriae Dedicata, 0046-5755, 161, 221 – 231
55. C.G. Lefter; L. Alfredo, *Approximate controllability for an integro-differential control problem*, Appl. Anal., 91, No. 8, 1529-1549
56. V. Leoreanu-Fotea, Feng Feng, Jianming Zhan, *Fuzzy soft hypergroups*, International Journal of Computer Mathematics, 0020-7160, 89, 963–974
57. R. Lopez, M.I. Munteanu, *Minimal translation surfaces in Sol³*, Journal of the Mathematical Society of Japan, 0025-5645, 64, 985 – 1003
58. Alfredo Lorenzi, Ioan I. Vrabie, *An identification problem for a nonlinear evolution equation in a Banach space*, Applicable Analysis, 003-6811, 91, 1583-1604
59. S.Sh. Mousavi, V. Leoreanu-Fotea, M. Jafarpour, H. Babaei, *Equivalence relations in semihypergroups and the corresponding quotient structures*, European Journal of Combinatorics, 0195-6698, 33, 463–473
60. L. Maticiuc, E. Rotenstein, *Numerical Schemes for Multivalued Backward Stochastic Differential Systems*, Central European Journal of Mathematics, ISSN 1895-1074, 10(2), 693-702
61. M.I. Munteanu, A.I. Nistor, *Surfaces in E³ making constant angle with Killing vector fields*, International Journal of Mathematics, 0129-167X, 23, 1-16
62. M.I. Munteanu, A.I. Nistor, *The classification of Killing magnetic curves in S² x R*, Journal of Geometry and Physics, 0393-0440, 62, 170 - 182
63. A. Precupanu, A. Gavrilut, *Pseudo-convergences of sequences of measurable functions on monotone multimeasure spaces*, Annals of the Alexandru Ioan Cuza University – Mathematics, 1221-8421, LVIII, 67–84
64. A. Precupanu, A. Gavrilut, *Set-valued Lusin type theorem for null-null-additive set multifunctions*, Fuzzy Sets and Systems, 0165-0114, 204, 106-116
65. M. Tărnăuceanu, *Classifying fuzzy subgroups of finite nonabelian groups*, Iranian Journal of Fuzzy Systems, 1735-0654, vol. 9, nr. 4, 33-43
66. M. Tărnăuceanu, *A generalization of Menon's identity*, Journal of Number Theory, 0022-314X, vol. 132, nr. 11, 2568-2573
67. M. Tărnăuceanu, *A note on the lattice of fuzzy subgroups of a finite group*, Journal of Multiple-Valued Logic and Soft Computing, 1542-3980 (print), 1542-3999 (online), vol. 19, nr. 5-6, 537-545
68. M. Tărnăuceanu, *Finite groups determined by an inequality of the orders of their elements*, Publicationes Mathematicae Debrecen, 0033 – 3883, vol. 80, nr. 3-4, 457-463
69. M. Tărnăuceanu, *Solitary quotients of finite groups*, Central European Journal of Mathematics, 1895-1074 (print version), 1644-3616 (electronic version) , vol. 10, nr. 2, 740-747
70. Ioan I. Vrabie, *Existence in the large for nonlinear delay evolution inclusions with nonlocal initial conditions*, Journal of Functional Analysis, 022-1236, 262, 1363-1391
71. Ioan I. Vrabie, *Global solutions for nonlinear delay evolution inclusions with nonlocal initial conditions*, Set-Valued and Variational Analysis, 1877-0533, 20, 477-497
72. Ioan I. Vrabie, *Nonlinear retarded evolution equations with nonlocal initial conditions*, Dynamic Systems and Applications, 1056-21760, 21, 417-440

73. C. Zalinescu, *On duality gap in linear conic problems*, Optimization Letters, 1862-4472, 6, 393-402

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

1. Mihai Turinici, *Linear contractions in product ordered metric spaces*, Ann. Univ. Ferrara, DOI 10.1007/s11565-012-0164-6
2. Marius Tărnăuceanu, *Some open problems on a class of finite groups*, International Journal of Open Problems in Computer Science and Mathematics, vol. 5, nr. 2, 88-94, 1998-6262, MR, ZBL
3. Gavrilut A., Croitoru A., *Classical theorems for a Gould type integral*, WSEAS Transactions on Mathematics, Vol. 11, Issue 5 (2012), 421-433, 1109-2769
4. O. Carja, A.I. Lazu, *Existence of global solutions to differential inclusions; a priori bounds*, Math. Bohem., 137 (2), 195-200, 0862-7959, MathScinet
5. Crasmareanu M., *Recurrent metrics in the geometry of second order differential equations*, Bull. Iranian Math. Soc, 38(2012), no. 2, Springer, 391-401, 1017-060X

III. ARTICOLE PUBLICATE ÎN REVISTE DE SPECIALITATE RECUNOSCUTE CNCSIS

1. Calin C., M. Crasmareanu, *Eta-Ricci solitons on Hopf hypersurfaces in complex space forms*, Revue Roumaine Math. Pures Appl., 57(2012), no. 1, MathScinet, 55-63, 0035-3965
2. Anastasiei Mihai, *Dirac Structures in Banach Courant algebroids*, ROMAI J., v. 8, no. 2 (2012), MathScinet, B+, 1-6, 18445512
3. Anastasiei Mihai, Gottlieb Ioan, *On a Schwarzschild-like metric*, Annals of the West University of Timisoara, Physics series, vol. LVI, 2012, 29-37, 1224-9718
4. Turinici Mihai, *Function contractive maps in partial metric spaces*, Romai J., 8, no 1, MathScinet, B+, 189-207, 1841-5512
5. Turinici Mihai, *Functional contractions in local Branciari metric spaces*, Romai J., 8, no 2, MathScinet, B+, 189-199, 1841-5512
6. Morosanu C., *Cubic spline method and fractional steps schemes to approximate the phase-field system with non-homogeneous Cauchy-Neumann boundary conditions*, ROMAI J., 8, no. 1, MathScinet, B+, 73-91, 1841-5512

IV. ARTICOLE PUBLICATE ÎN PROCEEDINGS-URI ALE CONFERINȚELOR

1. Croitoru A., *Properties of measurable multifunctions relative to a fuzzy measure*, Latest Advances in Information Science, Circuits & Systems, 1790-5109, 2012, 62-66
2. Apreutesei G., Croitoru A., Mastorakis N., *Totally boundedness and compactness on semilinear topological spaces*, Recent Researches in Automatic Control, Systems Science and Communications, 1790-5117, 2012, 32-35
3. Croitoru A., G. Apreutesei, M.A.S. Mahmoud, *Fuzzy convergences of multifunctions*, Recent Advances in Systems Science and Mathematical Modelling, ISBN: 978-1-61804-141-8, 139-143

V. CĂRȚI PUBLICATE LA EDITURI NAȚIONALE RECUNOSCUTE **CNCSIS**

1. Alina Gavrilut, *Regular Set Multifunctions*, Editura PIM, Iasi, 143, 978-606-13-0827-9
2. Anca Croitoru, Alina Gavrilut, Cristian Vaideanu, *Serii numerice. Siruri de functii. Serii de functii*, Editura Alexandru Myller, Iasi, 372, 978-973-88565-6-1
3. M. Anastasiei, *Selected papers*, Alexandru Myller, Iasi, viii+ 271, 978-973-88565-7-8
4. Marius Durea, *O introducere in teoria optimizarii neliniare*, Tehnopress, 250, 978-973-702-933-1

VI. CĂRȚI ȘI CAPITOLE DE CĂRȚI PUBLICATE LA EDITURI INTERNAȚIONALE

1. C. Morosanu, *Analysis and optimal control of phase-field transition system. Fractional steps methods*, Bentham Science Publishers, Bussum, The Netherlands, 353, 978-1-60805-350-6
2. Liviu C. Florescu, Christiane Godet-Thobie, *Young Measures and Compactness in Measure Spaces*, Walter de Gruyter, Berlin, Germany, 339, 978-3-11-028051-7
3. Chr. Tammer, C. Zalinescu, **Recent Developments in Vector Optimization**, *Vector variational principles for set-valued functions*, Springer, 367-415, 978-3-642-21114-0
4. Croitoru A., Apreutesei G., Mastorakis N., **Recent Researches in Applied Mathematics, Simulation, Modelling**, *Set-norm variation of set multifunctions*, WSEAS Press, 1-19, 978-1-61804-148-7
5. Croitoru A., Vaideanu C., **Mathematical methods for Information Science and Economics**, *Pointwise Measurable, Multifunctions*, WSEAS press, 37-42, 978-1-61804-148-7

VII. LUCRĂRI PREZENTATE LA **CONFERINȚE INTERNAȚIONALE**

1. Ioan Bucataru, Takahiro Yajima, *Higher order projective metrizable, Finsler and Kawaguchi spaces*. 47th Symposium on Finsler geometry, Kagoshima University, Japan, November 23 – 25 2012, A (60 minutes presentation),
<http://www.sci.kagoshima-u.ac.jp/~aikou/SYMPOSIUM/47.htm>
2. Anouar Gassous, Aurel Rascanu, Eduard Rotenstein, *A generalized convex Skorohod problem with oblique subgradients*, Workshop on Deterministic and Stochastic Dynamical Systems and Applications, Voronet, România, September 3-7, 2012, B,
<http://www.math.uaic.ro/~ITN2012/>
3. T. Havarneanu, C. Popa, *A splitting approximation scheme for Navier-Stokes equations*, Workshop on Stochastic control and finance, Roscoff, Franta, 18-23 martie 2012
4. T. Havarneanu, C. Popa, *An approximation scheme for the stochastic Stokes equations*, Workshop on Deterministic and Stochastic Dynamical Systems and Applications, Iasi-Gura Humorului, Romania, 3-6 septembrie 2012
5. G. Apreutesei, *An optimal control problem applied in epidemiology*, Controlled Deterministic and Stochastic Systems, Iasi, UAIC, 2-7 iulie 2012, B,
http://www.math.uaic.ro/~ITN2012/index.php?option=com_content&view=article&id=48&Itemid=56
6. Croitoru A., *Applications of fuzzy measures*, The 13-th International Conference on Fuzzy Systems (FS'12), Iasi, Romania, June 13-15, 2012, A,
<http://www.wseas.us/conferences/2012/iasi/fs/>

7. T. Havarneanu, C. Popa, *Approximation Schemes of Stochastic Differential Equations by the Splitting up Method*, Workshop on Stochastic Analysis and Applications, El Kelaa Mgouna, Maroc, 9-14 aprilie, 2012
8. Anastasiei, Mihai, *Banach Lie algebroids and Dirac Structures*. Int. Conference on Dif. Geometry and Dynamical Systems (DGDS 2012), Mangalia, Romania, Aug. 29-sept.2, 2012. A, <http://www.mathem.pub.ro/dept/dgds-12/DGDS-12.htm>
9. Marian Ioan Munteanu, *Biharmonic ideal hypersurfaces in Euclidean spaces*, PADGE 2012, Leuven, Belgium, August 27 - 30, 2012, B, <http://wis.kuleuven.be/events/padge2012>
10. Răşcanu A., *From Deterministic to Stochastic Variational Inequalities in Non-Convex Domains*, Workshop on Deterministic and Stochastic Dynamical Systems and Applications, Iasi-Voroneţ, Romania, September 3 - 6, 2012
11. Croitoru A., G. Apreutesei, M.A.S. Mahmoud, *Fuzzy convergences of multifunctions*, 3rd International Conference on Mathematical Models for Engineering Science, Paris, France, 2-4 decembrie 2012, B, <http://www.wseas.org/wseas/cms.action?id=2514>
12. Marian Ioan Munteanu, *Killing magnetic trajectories in 3-dimensional Riemannian manifolds*, XVII Geometrical Seminar, Zlatibor, Serbia, September 3-8 2012, A, <http://poincare.matf.bg.ac.rs/~geometricalseminar/>
13. M. Durea, *Metric regularity and Fermat rule in set-valued optimization*, 21st International Symposium on Mathematical Programming, Technical University Berlin, 19-24 august, 2012, B, <http://ismp2012.mathopt.org/en/program>
14. Adina Balmus, Stefano Montaldo, Cezar Oniciuc, *Old and new results on biharmonic submanifolds in spheres*, 6th European Congress of Mathematics Kraków 2012, Cracovia, Polonia, 2-7 iulie 2012, C, <http://www.6ecm.pl>
15. Zalinescu C., *On separation theorems and duality results using the quasi relative interior*, Variational Analysis and Applications, Erice (Italia), May 14-22, 2012, A, [http://umi.dm.unibo.it/international_school_of_mathematics_guido_stampacchia -- 128.html](http://umi.dm.unibo.it/international_school_of_mathematics_guido_stampacchia_-_128.html)
16. Ionel-Dumitrel Ghiba, *On the study of Saint-Venant problem for porous cylinders using a semi-inverse method*, Oberseminar zur Analysis, University of Duisburg-Essen, Faculty of Mathematics, Essen, Germany, September 27, 2012, A, http://www.uni-due.de/mathematik/ag_neff/oberseminar_en
17. S. Anita, *Optimal harvesting for age-dependent population dynamics*, 12th Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics, Vienna, Austria, 28 May-2 June, 2012, <http://orcos.tuwien.ac.at/events/ocdgn2012/>
18. G. Apreutesei, N. Apreutesei, *Optimal treatment of hepatitis B virus infection*, 12-th Viennese workshop of Optimal Control, Dynamic Games and Non-linear Dynamics, Vienna University of Technology, 30 mai-2 iunie 2012, B, http://orcos.tuwien.ac.at/events/ocdgn2012/conference_program
19. Croitoru A., Vaideanu C., *Pointwise measurable multifunctions*, The 17-th International Conference on Applied Mathematics (AMATH'12), Montreux, Switzerland. December 29-31, 2012, C, <http://www.wseas.org/multimedia/conferences/2012/Montreux/ProgramMontreux.pdf>
20. Croitoru A., *Properties of measurable multifunctions relative to a fuzzy measure*, The 13-th International Conference on Fuzzy Systems (FS'12), Iasi, Romania, June 13-15, 2012, B, <http://www.wseas.us/conferences/2012/iasi/ProgramIasi.pdf>

21. Anouar Gassous, Aurel Rascanu, Eduard Rotenstein, *Qualitative and quantitative results for stochastic variational inequalities with oblique subgradients*, 8th World Congress in Probability and Statistics, Istanbul, Turkey, July 9-14, 2012, C, <http://www.worldcong2012.org/?p=sprogram>
22. O. Carja, *Regularity of the solution map for differential inclusions*, International Conference on Controlled Deterministic and Stochastic Systems, Iasi, Romania, 2-7 iulie 2012
23. Ionel-Dumitrel Ghiba, *Representation formulas and existence results in the theory of micropolar solid-fluid mixtures under steady state vibrations*, 6th European Congress of Mathematics, Krakow, Poland, July 2-7, 2012, C, <http://www.6ecm.pl/>
24. Zalinescu C., *Representation of monotone operators in Banach spaces by convex functions and applications*. Perspective asupra cercetarii matematice in societatea bazata pe cunoastere Bucuresti, 26-27 Sept. 2012, A, <http://www.diaspora-stiintifica.ro/index.php?page=programe-workshop&id=1>
25. Ionel-Dumitrel Ghiba, *Semi-inverse solutions for the deformation of porous cylinders*, 8th European Solid Mechanics Conference, Graz, Austria, July 9-13, 2012, B, <http://www.esmc2012.tugraz.at/>
26. Croitoru A., Apreutesei G., Mastorakis N., *Set-norm variation of set-multifunctions*, The 6-th International Conference on Applied Mathematics, Simulation, Modelling (ASM'12), Vouliagmeni Beach, Athens, Greece, March 7-9, 2012, B, <http://www.wseas.us/conferences/2012/vouliagmeni/ProgramVouliagmeni.pdf>
27. Marian Ioan Munteanu, *The classification of Killing magnetic curves in $M^2(c) \times R$* , 6-th European Congress of Mathematics, Krakow, Poland, July 2 -7, 2012, C, <http://www.6ecm.pl/>
28. G. Apreutesei, *The translated topology and some non-topological convergences on semilinear topological spaces*, Third International Conference on Topology and its Applications, Skopje, Ss. Cyril and Methodius University, 2-7 septembrie, 2012, B, <http://icta.instmat.org/conf2py/default/abstracts>
29. Croitoru A., Stamate C., *Topology on a space of set-valued functions*, The 3-rd International Conference on Topology and its Applications (ICTA-2012), Skopje, Republic of Macedonia, September 2-7, 2012, B, <http://icta.instmat.org/conf2py/default/abstracts>
30. G. Apreutesei, A. Croitoru, N. Mastorakis, *Totally boundedness and compactness on semilinear topological spaces*, 11th WSEAS International Conference on Non- Linear Analysis, Non-Linear Systems and Chaos, Porto, Portugal, 1-3 iulie 2012, B, <http://www.wseas.org/multimedia/books/2012/Porto/CANN.pdf>
31. Marian Ioan Munteanu, *Translation surfaces in some homogeneous 3-spaces: minimality*, X Geometric Symposium, Burhaniye, Balikesir, Turkey, June 13 - 16, 2012, A
32. Zalinescu C., *Variational principles for multifunctions and applications*, 21st International Symposium on Mathematical Programming, Berlin, Germany, August 19-24, 2012, B, <http://ismp2012.mathopt.org/en/program>
33. O. Carja, *Viability for differential inclusions*, Research School on Controllability of deterministic and Stochastic Systems and its Applications, Iasi, Romania, 18-30 iunie 2012
34. Liviu C. Florescu, *A Completion of Measurable Functions Space*, Integration, Vector Measures and Related Topics V, Palermo, Italy, August 28 - September 1, 2012, B, <http://ivmrt.math.unipa.it/program>

VIII. PREMII ȘI DISTINȚII ACADEMICE NAȚIONALE ȘI INTERNAȚIONALE

1. Razvan Litcanu, Premiul Gh. Lazar, National, Academia Romana, Romania, acordat pentru activitatea de cercetare
2. Mircea Birsan, Premiul "Nicolae Teodorescu" pentru Stiinte Matematice acordat de Academia Oamenilor de Stiinta din Romania, National, Academia Oamenilor de Stiinta din Romania, Romania, acordat pentru activitatea de cercetare
3. Marius Durea, Premiul Dimitrie Pompeiu al Academiei Romane, National, Academia Romana, Romania, acordat pentru activitatea de cercetare

IX. FONDURI ATRASE PENTRU CERCETARE DERULATE PRIN UNIVERSITATE (GRANTURI NAȚIONALE ȘI INTERNAȚIONALE)

[1]. ITN – FP7

Suma derulată în 2012: 251 753 EURO

Prof. dr. Aurel Rășcanu, CS I - director
Gassous Anouar – asistent cercetare
Victor Postolache – asistent cercetare
Hanbing Liu – asistent cercetare
Tianyang Nie – asistent cercetare
Bakarime Diomande – asistent cercetare
Juan Yang – asistent cercetare
Eduard Rotenstein – asistent cercetare
Lucian Maticiuc – asistent cercetare
Adrian Zălinescu – asistent cercetare

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

Suma derulată în 2012: 298 247 lei

Acad. Viorel Barbu, CS I – director
Prof. dr. Ovidiu Cârjă – CS I
Prof. dr. Cătălin Lefter – CS I
Prof. dr. Aurel Rășcanu – CS I
Conf. dr. Marius Durea – CS II
Lect. dr. Lucian Maticiuc – CS III

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

Suma derulată în 2012: 508 300 lei

Prof. dr. Ovidiu Cârjă, CS I – director
Tzanko Donchev – CS I
Alina Lazu – CS III
Postolache Victor – asistent cercetare
Juan Yang – asistent cercetare

- [4]. PN-II-RU-TE-2011-3-0017
Suma derulată în 2012: 275 000 lei
Conf. dr. Marian Ioan Munteanu, CS II – director grant
Conf. dr. Ioan Bucătaru – CS II
Ana Irina Nistor – asistent cercetare
- [5]. PN II IDEI 240/05.10.2011
Suma derulată în 2012: 524 650 lei
Prof. dr. Ioan I. Vrabie, CS I – director
Conf. dr. Mihai Necula – CS II
Lect. dr. Daniela Roșu – asistent cercetare
Lect. dr. Monica Burlica – asistent cercetare
Asist. dr. Marius Popescu – asistent cercetare
- [6]. PN II IDEI nr. 241/05.10.2011
Suma derulată în 2012: 411 625 lei
Prof. dr. Aurel Rășcanu, CS I – director proiect
Lect. dr. Lucian Maticiuc – CS III
Adrian Zălinescu – CS III
- [7]. PN-II-ID-PCE-2011-3-0084
Suma derulată în 2012: 388 566 lei
Prof. dr. Zălinescu Constantin, CS I – director proiect
Conf. dr. M. Durea – CS II
Lect. dr. R. Strugariu – CS III
D. O. Hainisteanu – asistent cercetare
- [8]. PN-II-RU-TE-184, 86/30.07.2010
Suma derulată în 2011: 204 226 RON
Lect. dr. Cătălin Galeș, CS III – director
Dumitrel Ghiba – asistent cercetare
Emilian Bulgariu – asistent cercetare
Ionuț Ignătescu – asistent cercetare
- [9]. PN-II-RU-TE-2011-3-0108
Suma derulată în 2012: 281 875 lei
Conf. dr. Oniciuc Cezar, CS II – director
Prof. dr. Lițcanu Răzvan – CS I
Lect. dr. Iulian Stoleriu – CS III
Asist. dr. Balmuș Adina – asistent cercetare

X. MANIFESTĂRI ȘTIINȚIFICE ORGANIZATE DE FACULTATE

1. *Sesiunea de comunicari stiintifice din cadrul manifestarii "Zilele Universitatii Alexandru Ioan Cuza", conferinta nationala, 26 octombrie 2012*
2. *Simpozion aniversar Academician Radu Miron la 85 de ani, simpozion, nationala, 26 octombrie 2012*
3. *Matematica în școală: educație științifică, studiu, competiție, atelier, locala, 27 octombrie 2012*
4. *Workshop on Deterministic and Stochastic Dynamical Systems and Applications, atelier, internationala, 3-7 septembrie 2012*
5. *Research School on Controllability of Deterministic and Stochastic Systems and its Applications, scoala de vara, internationala, 18-30 iunie 2012*
6. *International Conference on "Controlled deterministic and stochastic systems", conferinta, internationala, 2-7 iulie 2012, 2-7 iulie 2012*
7. *An introduction to Wilmore surfaces, Prof. Stefano Montaldo, Universita degli Studi di Cagliari, Italia, seminar, locala, 7 decembrie 2012*
8. *Riemannian Geometry and Harmonic Maps, Prof. Eric Loubeau, Universite de Bretagne Occidentale, Brest, France, workshop, locala, 17-28 mai 2012*
9. *Regularization of Quasi Variational Inequalities, Prof. Christiane Tammer (University of Halle-Wittenberg, Germany), seminar, locala, 16 octombrie 2012*
10. **Seminar stiintific cercetatori postdoctoranzi:** *A Typing system for Membrane Systems (Bogdan Aman, UAIC); Stabilitate structurala in termoelasticitate (Catalin Gales, UAIC), seminar, locala, 12 aprilie 2012*
11. **Seminar stiintific cercetatori postdoctoranzi:** *Strong Solution for Generalized Backward Stochastic Variational Inequalities (Lucan Maticiuc, UAIC); A Penalization Method for the Weak Solution of Reflected Stochastic Differential Equations (Adrian Zalinescu, UAIC), seminar, locala, 27 aprilie 2012*
12. **Seminar stiintific cercetatori postdoctoranzi:** *Asupra curburii medii a subvarietatilor biarmonice in sfera (Adina Balmus, UAIC), seminar, locala, 12 octombrie 2012*