



RAPORT

privind cercetarea științifică în anul 2011

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

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3. Aman, Bogdan and Ciobanu, Gabriel, COMPUTING BY ENDOCYTOSIS AND EXOCYTOSIS, ANALELE ȘTIINȚIFICE ALE UNIVERSITĂȚII AL I CUZA DIN IASI-SERIE NOUA-MATEMATICĂ, 2011, 57, 1, 13-24, 1221-8421
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10. Arnautu, Viorel and Mosneagu, Ana-Maria, NUMERICAL APPLICATIONS FOR INSULIN TREATMENT MODELS, ANALELE ȘTIINȚIFICE ALE UNIVERSITĂȚII AL I CUZA DIN IASI-SERIE NOUA-MATEMATICĂ, 2011, 57, 1, 43-55, 1221-8421
11. Arnautu, Viorel and Mosneagu, Ana-Maria, NUMERICAL LOCKING PROBLEMS FOR PARABOLIC EQUATIONS, NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, 2011, 32, 9, 927-945, 10.1080/01630563.2011.587077, 0163-0563

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101. Zhan, Jianming and Leoreanu-Fotea, V. and Vougiouklis, Thomas, FUZZY SOFT Gamma-HYPERMODULES, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, 2011, 73, 3, 13-28, 1223-7027

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

- [1]. Zbl pre05983645 Turinici, Mihai, *Vector maximal principles and dependent choice.* (English) *Libertas Math.* 31, 35-48 (2011)
- [2]. Zbl pre05983646 Turinici, Mihai, *Ran-Reurings fixed point results in ordered metric spaces.* (English) *Libertas Math.* 31, 49-55 (2011)
- [3]. Zbl 1217.35213 Lorenzi, Alfredo; Vrabie, Ioan I., *An identification problem for a linear evolution equation in a Banach space and applications.* (English) *Discrete Contin. Dyn. Syst., Ser. S* 4, No. 3, 671-691 (2011).
- [4]. Zbl pre05996122 Durea, M.; Dutta, J.; Tammer, Chr., *Stability properties of KKT points in vector optimization.* (English) *Optimization* 60, No. 7-9, 823-838 (2011).

III. ARTICOLE PUBLICATE ÎN REVISTE DE SPECIALITATE RECUNOSCUTE CNCSIS

- [1]. Alfredo Lorenzi, Ioan I. Vrabie, Identification for Linear Evolution Equation in Banach Spaces, *Discrete and Continuous Dynamical Systems, Series S*, 4, 671-691, 1937-1632, volum conferinta 10.3934/dcds.2011.4.671
- [2]. Iulian Stoleriu, Non-local models for solid-solid phase transitions, *ROMAI J.*, 7, 157-170, 1841-5512, B+, *Zentralblatt MATH*
- [3]. Iulian Stoleriu, A non-local version of the viscous Cahn-Hilliard equation, *Bulletin of the Polytechnic Institute of Iasi, Mathematics, Theoretical Mechanics, Physics Section*, LVII (LXI), 255-267, 1244-7863, B+, *Zentralblatt MATH*

IV. ARTICOLE PUBLICATE ÎN PROCEEDINGS-URI ISI ALE CONFERINȚELOR

- [1]. On spatial behaviour in linear thermoelasticity, Author(s): Chirita Stan Editor(s): Barbu V; Carja O Conference: Alexandru Myller Mathematical Seminar Centennial Conference Location: Iasi, ROMANIA Date: JUN 21-26, 2010, Sponsor(s): Al I Cuza Univ; Iasi County Council Source: ALEXANDRU MYLLER MATHEMATICAL SEMINAR Book Series: AIP Conference Proceedings, Volume: 1329, Pages: 70-86, DOI: 10.1063/1.3546076 Published: 2011
- [2]. On the grade consistent theories of micromorphic elastic solids, Author(s): Iesan D. Editor(s): Barbu V; Carja O Conference: Alexandru Myller Mathematical Seminar Centennial Conference Location: Iasi, ROMANIA Date: JUN 21-26, 2010 Sponsor(s): Al I Cuza Univ; Iasi County Council Source: ALEXANDRU MYLLER MATHEMATICAL SEMINAR Book Series: AIP Conference Proceedings, Volume: 1329, Pages: 130-149 DOI: 10.1063/1.3546081 Published: 2011
- [3]. Some recent results on generalized analytic torsion classes, Author(s): Burgos Gil Jose I.; Freixas i Montplet Gerard; Litcanu Razvan Editor(s): Barbu V; Carja O Conference: Alexandru Myller Mathematical Seminar Centennial Conference Location: Iasi, ROMANIA Date: JUN 21-26, 2010 Sponsor(s): Al I Cuza Univ; Iasi County Council Source: ALEXANDRU MYLLER MATHEMATICAL SEMINAR Book Series: AIP Conference Proceedings Volume: 1329 Pages: 49-69 DOI: 10.1063/1.3546075 Published: 2011
- [4]. Minimal and flat surfaces in $H(2) \times R$ with canonical coordinates, Author(s): Munteanu M. I.; Nistor A. I. Editor(s): Loubeau E; Montaldo S Conference: Conference on Harmonic

map Fest in Honour of John C. Woods 60th Birthday Location: Cagliari, ITALY Date: SEP 07-10, 2009 Sponsor(s): Univ Cagliari, dept Matemat & Informat; gnsaga inDam; Prin 2007; Fondazione Banco Sardegna; Regione Autonoma Sardegna; Provincia Cagliari & Cantina Sociale Santadi Source: HARMONIC MAPS AND DIFFERENTIAL GEOMETRY Book Series: Contemporary Mathematics Volume: 542, Pages: 267-271, Published: 2011

- [5]. Harmonic and biharmonic maps from surfaces, Author(s): Baird P.; Loubeau E.; Oniciuc C. Editor(s): Loubeau E; Montaldo S Conference: Conference on Harmonic map Fest in Honour of John C. Woods 60th Birthday Location: Cagliari, ITALY Date: SEP 07-10, 2009 Sponsor(s): Univ Cagliari, dept Matemat & Informat; gnsaga inDam; 2007; Fondazione Banco Sardegna; Regione Autonoma Sardegna; Provincia Cagliari & Cantina Sociale Santadi Source: HARMONIC MAPS AND DIFFERENTIAL GEOMETRY, Book Series: Contemporary Mathematics Volume: 542, Pages: 223-230 Published: 2011
- [6]. Thermal Stresses in Chiral Elastic Beams, Author(s): Iesan D. Conference: 9th International Congress on Thermal Stresses Location: Budapest, HUNGARY Date: JUN 06-09, 2011 Source: JOURNAL OF THERMAL STRESSES Volume: 34 Issue: 5-6, SI Pages: 458-487 Article Number: PII 936145031 DOI: 10.1080/01495739.2011.564003
- [7]. A survey on constant angle surfaces in homogeneous 3-dimensional spaces, Author: M. Munteanu, Proceedings of the workshop on differential geometry and its applications, Iasi, Romania, September 2-4, 2009, Eds. D. Andrica and S. Moroianu, Cluj University Press, 2011, 109-123
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- [9]. On spatial behaviour in linear thermoelasticity, Author: Chirita, Stan, ALEXANDRU MYLLER MATHEMATICAL SEMINAR, AIP Conference Proceedings, 2011, 1329, 70-86, Alexandru Myller Mathematical Seminar Centennial Conference, Iasi, ROMANIA, JUN 21-26, 2010, Barbu, V and Carja, O (Eds.), 10.1063/1.3546076, 0094-243X, 978-0-7354-0884-5

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

VI. CĂRȚI PUBLICATE LA EDITURI INTERNAȚIONALE RECUNOSCUTE **CNCSIS**

- [1]. Anița, Sebastian; Arnăutu, Viorel; Capasso, Vincenzo An introduction to optimal control problems in life sciences and economics. From mathematical models to numerical simulation with MATLAB. (English) Modeling and Simulation in Science, Engineering and Technology. Boston, MA: Birkhäuser. xii, 233 p., MSC2000: 49-01 49-04 49J15
- [2]. Vrabie, Ioan I. Differential equations. An introduction to basic concepts, results and applications. 2nd ed. (English) Hackensack, NJ: World Scientific. xix, 460 p., MSC2000: 34-01 34A05 34A12

VII. LUCRĂRI PREZENTATE LA CONFERINȚE INTERNAȚIONALE

- [1]. Ioan Bucataru, Oana Constantinescu, Matias Dahl, A unifying geometric setting for systems of ordinary differential equations on manifolds, The VII-th International Conference: Finsler Extensions of Relativity Theory – FERT, Brasov, Romania, 29.08 - 04.09 2011, B, <http://cs.unitbv.ro/fert2011/>
- [2]. C. Zalinescu, On the differentiability of the support function, 10th International Symposium on Generalized Convexity and Monotonicity, Cluj-Napoca, Romania, August 22-27, 2011, A, <http://www.cs.ubbcluj.ro/gcm10/>
- [3]. Ovidiu Carja, Lower semi continuity of the solution set for differential inclusions, 25th IFIP TC 7 Conference 2011, Berlin, Germania, 12–16 septembrie 2011, http://www.ifip2011.de/index.php?article_id=48
- [4]. Ovidiu Carja, Null controllability in minimum time for a semilinear control system, International Conference on Numerical Analysis and Optimization Theory and Applications, Dhahran, Arabia Saudita, 18—19 decembrie, A, <http://www1.kfupm.edu.sa/naota/index.htm>
- [5]. Lucian Maticiuc, Eduard Rotenstein, Approximation schemes for backward stochastic variational inequalities, ITN School and Workshop on “Deterministic and stochastic evolution equations in infinite dimensions“, Milano, Italy, June 27 - July 13, 2011, B, <http://www.mate.polimi.it/scpde/>
- [6]. Gavrilut A., Croitoru A., About L-infinity space for fuzzy measures, The 12-th International Conference on Fuzzy Systems (FS'11), Brasov, Romania, Aprilie 11-13, 2011, B, <http://www.wseas.us/conferences/2011/brasov/fs/>
- [7]. Croitoru A., On a non-linear integral of multifunctions with respect to a fuzzy measure, The 10-th International Conference on Non-Linear Systems and Chaos (NOLASC'11), Iasi, Romania, 1-3 iulie, 2011, B, <http://www.wseas.us/conferences/2011/iasi/nolasc/>
- [8]. Croitoru A., Convergence properties for sequences of measurable multifunctions, Edinburgh, The 26-th British Topology Meeting, Edinburgh, United Kingdom, 1-3 Septembrie 2011, B, <http://www.icms.org.uk/workshops/btm>
- [9]. Croitoru A., Convergence in fuzzy measure for measurable multifunctions, The 19-th Conference on Applied and Industrial Mathematics (CAIM-2011), Iasi, Romania, 22-25 Septembrie 2011, B, <http://www.uaiasi.ro/caim2011/index.php?lang=en&pagina=files/en.html>
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- [11]. Chirita Stan Ciarletta Michele, On the well-posedness of the theory of thermoelasticity of type III, 9th International Congress on THERMAL STRESSES 2011, Budapest, Hungary, 5-9 iunie 2011, B, <http://ts2011.mm.bme.hu/>
- [12]. Gales Catalin, Ghiba Dumitrel, Ignatescu Ionut, On the asymptotic partition of energy in micromorphic thermopiezoelectricity, 9th International Congress on Thermal Stresses, Budapesta, June 5-9, 2011, B, http://ts2011.mm.bme.hu/the_programme.php
- [13]. Gales Catalin, Spatial behavior of harmonic vibrations in viscoelastic materials, 2th International Conference on Material Modelling, Paris, August 31-September 2, 2011, B, <http://icmm2.ensmp.fr/?page=5>
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- [16]. Violeta Leoreanu-Fotea, Hyperstructures, fuzzy sets, soft sets, 11th Conference on Algebraic Hyperstructures and Applications, Pescara, Italia, 16-21 Octombrie 2011, A, http://www.aha2011.unich.it/Scientific_committee.html
- [17]. M.I. Munteanu, On the geometry of PR-warped products in para-Kähler manifolds, Conference Geometric Structures in Mathematical Physics, Golden Sands, Bulgaria, September 19-26, 2011, B, <http://www.fmi.uni-sofia.bg/ivanovsp/MathPhys2011.html>
- [18]. M.I. Munteanu, Canonical directions on surfaces in $M_2(c) \times \mathbb{R}$, Spring Lectures Series: Conformal geometry and Interactions with Representation Theory, Fayetteville, Arkansas, USA, 2011, April 7-9, 2011, B, <http://math.uark.edu/6137.php>
- [19]. Aurel Rășcanu, Stochastic variational inequalities: existence problem, Stochastic Partial Differential Equations and Related Topics, Chern Institute, Nankai University, April.25-29, 2011, A, <http://www.nim.nankai.edu.cn/activites/conferences/hy20110425/index.htm>
- [20]. Aurel Rășcanu, Stochastic controllability and Carleman estimates, Ecole de recherche CIMPA – Monastir : Contrôle et Stabilisation des Equations aux Dérivées Partielles, Monastir, Tunisia, 9 – 19 mai 2011, A, <http://www.fsm.rnu.tn/cimpa/programme.php>

VIII. PREMII ȘI DISTINCȚII ACADEMICE NAȚIONALE ȘI INTERNAȚIONALE

- [1]. M. Bîrsan, Premiul "Nicolae Teodorescu" 2011 al Academiei Oamenilor de Știință din România
- [2]. Violeta Leoreanu-Fotea, Premiul Academiei Grigore Moisil

IX. PROFESOR INVITAT LA UNIVERSITĂȚI DIN STRĂINĂTATE

- [1]. Lefter, C. - Universitatea Milano, Universitatea Bordeaux

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

- [1]. ITN – FP7
Suma derulată în 2011: 195.943 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]. PN II IDEI, contractul 239/2011, cod PN-II-ID-PCE-2011-3-0084
Suma derulată în 2011: 72 000 lei
Prof. dr. Constantin Zălinescu, CS I – director
Lect. dr. Marius Durea – CS III
Lect. dr. Radu Strugariu – CS III
Dumitrița Hăinișteanu – asistent cercetare
- [3]. PN II IDEI, contractul 244/2011, cod PN-II-ID-PCE-2011-3-0154
Suma derulată în 2011: 62 390 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 2011: 27 500 RON
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 2011: 72702.50 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 anul 2011: 93.060,47 lei
Prof. dr. Aurel Rășcanu, CS I – director proiect
Lect. dr. Lucian Maticiuc – CS III
Adrian Zălinescu – CS III
- [7]. PN-II-RU-TE-2011-3-0108
Suma derulată în 2011: 53 000 RON
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

[8]. PN-II-RU-TE-184, 86/30.07.2010
Suma derulată în 2011: 209 145 RON

Lect. dr. Cătălin Galeș, CS III – director
Dumitrel Ghiba – asistent cercetare
Emilian Bulgariu – asistent cercetare
Ionuț Ignătescu – asistent cercetare

[9]. PN IDEI ID_89
Suma derulată în 2011 a fost: 197 735.49 lei (RON)

Conf. dr. Mircea Bîrsan, CS II – director
Prof. Dorin Ieșan – CS I
Prof. Stan Chirita – CS I
Dumitrel Ghiba – asistent cercetare
Emilian Bulgariu – asistent cercetare
Irina Ana Nistor – asistent cercetare

XI. MANIFESTĂRI ȘTIINȚIFICE ORGANIZATE DE FACULTATE

[1]. Sesiunea de comunicări științifice dedicată Zilelor Universității "Alexandru Ioan Cuza" din Iași, 28-29 octombrie 2011