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DARE DE SEAMĂ PE ANUL 2011

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1. **Marius Iosifescu, Gabriela I. Sebe,** D.Lascu**,** *Metrical theory of some continued fraction expansions*, Ed. Academiei Romane 2011, 144 p.

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2. **Buiculescu, Mioara**, Petrehuş Viorel, **Zbăganu Gheorghiţă** - *Iterated integrated tail with periodic hazard rate.* Math. Reports **13**(63), 2011, no. 2, 127–139.

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2. **Stefan G. Cruceanu, Dorin Marinescu**, *Parameter evaluation for bioconcentration model, using cellular exclusion method*, ROMAI J., Vol.7, Nr.1, 2011, 63-77.

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6. **Raluca Vernic**, Ungureanu, D. – **"*On two particular fuzzy numbers derived from probability distributions*"**. Buletinul Ştiinţific al Universităţii din Piteşti, seria Matematică şi Informatică, to appear 2011

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1. **Andreea Mădălina Stancu, I. M. Stancu-Minasian**, *Sufficiency criteria in continuous-time nonlinear programming under generalized (α,ρ)-(η,θ)-type I invexity*, Rev. Roumanie Math. Pures Appl. **56**(2011)2, 169-179.

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3. **Luiza Bădin,** Daraio, C., Simar, L., *How to Measure the Impact of Environmental Factors in a Nonparametric Production Model?*, XII European Workshop on Efficiency and Productivity Analysis (EWEPA XII), 21-24 Iunie 2011, Verona, Italia

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25. **Alexandru Dumitrache, Horia Dumitrescu**, O. Preotu, *Active Circulation Control for Horizontal Axis Wind Turbine*, 9th International Conference of Numerical Analysis and Applied Mathematics, Halkidiki, Grecia, 19-25 Septembrie 2011.

26. I. Malael, **Horia Dumitrescu**, **Alexandru Dumitrache**, *Methods to improve the performance of the turbomachines using the flow control,* 9th International Conference of Numerical Analysis and Applied Mathematics, Halkidiki, Grecia, 19-25 Septembrie 2011.

27. R. Mahu, F. Popescu, **Florin Frunzulică**, **Alexandru Dumitrache**, *3D CFD Modeling and Simulation of NREL Phase VI Rotor*, 9th International Conference of Numerical Analysis and Applied Mathematics, Halkidiki, Grecia, 19-25 Septembrie 2011.

28. **Alexandru Dumitrache**, **Florin Frunzulică**, *Preface of the Symposium "State of the Art of Modeling and Numerical Analysis for Wind Turbines"*, 9th International Conference of Numerical Analysis and Applied Mathematics, Halkidiki, Grecia, 19-25 Septembrie 2011.

29. **Alexandru Dumitrache**, **Florin Frunzulică**, **Horia Dumitrescu** and Octavian Preotu, *Turbulent flow in a Coanda ejector,* The Seventh Congress of Romanian Mathematicians, June 29 - July 5, 2011, Brasov, Romania .

30. **Alexandru Dumitrache**, **Florin Frunzulică**, *Unsteady convective diffusion of a solute in a Hagen-Poiseuille flow through a tube with permeable wall,* A 33-a editie a Conferintei "Caius Iacob" de Mecanica Fluidelor si aplicatiile ei tehnice − 2011, September 29 - 30, 2011, Bucharest, Romania.

31. **C. P. Grunfeld**, **Dorin Marinescu**, *On the Statistical Solutions of Kinetic Equations*, A 33-a editie a Conferintei "Caius Iacob" de Mecanica fluidelor si aplicatiile ei tehnice, 2011.

32. V.A. Trenoghin, **Anca Veronica Ion,** *The stability of Lyapunov trivial solution of the non-autonomous DE in Banach space*, Scoala de Vara −Conferinta Internationala "Modelare matematica, metode numerice si programe complexe", Saransk, Rusia, 1-13 iulie 2011.

33. **Anca Veronica Ion**, *On the computation of the term $w_{21}u^2\bar{u}$ of the series defining the center manifold for a scalar delay differential equation,* 19th Conference on Applied and Industrial Mathematics − CAIM 2011, Iasi, 23-25 septembrie 2011.

34. **Stelian Ion**, *Parameter Estimation of ODE,* The 33rd "Caius Iacob" Conference on Fluid Mechanics and its Technical Applications, sept. 2011, Bucuresti.

35. **Stelian Ion**, **Anca Veronica Ion**, *Flow of a class of pseudo-plastic fluids through pipes,* The 7-th Congress of Romanian Mathematicians, June29-July 5, Brasov, Romania.

36. **Stelian Ion**, Minodora Manu, *Analysis of the Variation of the Population of of Predatory Mites in Natural Forest of Bucegi*, 19th Conference on Applied and Industrial Mathematics − CAIM 2011, Iasi, 23-25 septembrie 2011.

37. **Valentin Ionescu**, *On amalgamated conditionally free products of completely positive maps*, The 7-th Congress of Romanian Mathematicians, June 29-July 5, 2011, Brasov.

38. **Valentin Ionescu**, *Amalgamated conditionally Boolean products of operator-valued quantum probability spaces*, A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011, Bucuresti, Romania

39. **Valentin Ionescu**, *Amalgamated conditionally Boolean product of quantum Markov kernels*, A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011, Bucuresti, Romania

40. **Gabriela Marinoschi**, *Coeffcient identification in nonlinear diffusion equations in porous media*, A 33-a Conferinta Caius Iacob de Mecanica Fluidelor si Aplicatiile ei Tehnice, Bucuresti 29-30.09.2011

41. **Gabriela Marinoschi**, *An asymptotic solution to a nonlinear reaction-diffusion system with chemotaxis*, Mathematical Innovative Methods and Models of Biosciences, 19-21.12.2011, Trento, Italia

42. **A. M. Marinov**, I. Marinov, *Pumping regime influence on groundwater quality in the proximity of a polluted lake,* 6th International Conference on Sustainable Water Resources Management. 23 - 25 May 2011. Riverside, California, USA

43. **A. M. Marinov**, *How sustainable agriculture can improve groundwater quality: a model study for a soil and aquifer case,* 6th Dubrovnik Conference on Sustainable Development of Energy Water and Environmental Systems", September 25 – September 29, 2011, Dubrovnik, Croatia

44. A.A. Dobre, **A.M. Morega**, *Blood flow - vessel interaction in a subclavian aneurysm*, "Caius Iacob" National Conference on Fluid Mechanics and its Technical Applications, 2011, 29-30 September, Bucharest, Romania.

45. L. Paslaru-Danescu, **A.M. Morega**, M. Morega, L.A Mitulet, V. Stoica, *Masini electrice sincron de mare turatie, cu magneti permanenti, actionate prin intermediul unui invertor de frecventa*, Seminarul de Masini Electrice, SMEŐ11, editia a 7a, 6-7 Septmbrie, 2011, ICPE-ME, IE-UPB, Bucuresti.

46. I. Dobrin, L. Paslaru-Danescu, **A.M. Morega**, M. Popescu, *Sistem de alimentare a rotorului unui motor electric sincron, cu functionare in regim supraconductor*, Seminarul de Masini Electrice, SMEŐ11, editia a 7a, 6-7 Septmbrie, 2011, ICPE-ME, IE-UPB, Bucuresti.

47. **Constantin Popa***, Contractive projection-based iterations for linear least squares problems*; lucrare prezentata la International Conference on Nonlinear Operators, Differential Equations and Applications, July 5-8, 2011, Cluj Napoca

48. **Constantin Popa**, Gh. Juncu, A. Nicola, E. Stroila*, Preconditioned iterative solvers for multi-component convection-diffusion-reaction equations* (coautori Gh. Juncu, A. Nicola, E. Stroila); lucrare prezentata la A 33-a Conferinta Nationala "Caius Iacob" de Mecanica Fluidelor si Aplicatiile ei Tehnice, INCAS, Bucuresti

49. **Mihai Popescu**, *Minimum energy for a class nonlinear controllable systems*, 7th Congress of Romanian Matheticians, June 29 – July 5, 2011, Brasov, Romania.

50. **Mihai Popescu**, *Functional Analysis Method in Solving Minimum Energy Problem for a Class of Controllable Nonlinear Systems*, The 33th "Caius – Iacob" Conference o Fluid Mechanics and its Technical Applications, September 29 – 30, Bucharest, Romania.

51. **Dumitru Popescu** and A.G. Popescu, *The intelligent pulsatory liposome,* The 33rd "Caius Iacob" Conference on Fluid Mechanics and its Technical Applications, 2011**,** September, 29-30, Bucharest, Romania

52. **Dumitru Popescu**, *The pulsatory lipid vesicle as a drug delivery device. The useful parameters.* The 4-th International Conference on ″Computational Mechanics and Virtual Engineering″COMEC 2011, 20 – 22 october 2011, Brasov.

53. **Dumitru Popescu**, Alin Gabriel Popescu *The dynamical parameters characterizing a pulsatory lipid vesicle,* The 4-th International Conference on ″Computational Mechanics and Virtual Engineering″ COMEC 2011, 20 – 22 october 2011, Brasov.

54. Alin Gabriel Popescu, Ecaterina Maries, **Dumitru Popescu,** *The programming of the pulsatory liposome working,* The 11-th National Conference of Biophysics**,** November 10-12, 2011, Sibiu, Romania

55. I. M. Mazilu, **Vasile Preda**, E. Panaitescu, *Inferences for the some statistical distribution based on record statistics* , 1st International Symposium &10th Balkan Conference on Operational Research (BALCOR 2011), Thessaloniki, Grecia.

56. **Vasile Preda**, R. Ciumara, *On optimal reinsurance programs*, A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011, Bucuresti.

57. **Vasile Preda**, C. Niculescu, *Maximizing the disorder with certain grade correlation coefficients*, A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011, Bucuresti.

58. C. Balcau. **Vasile Preda**, *Partial weighted entropic perturbation for linear and quadratic programming*, A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011, Bucuresti, Romania.

59. **Marius Rădulescu,** Radulescu C. Z., **Gheorghiță Zbăganu**, *Mean-risk models for fishery management*, 7th Congress of Romanian Mathematicians, June29-July 5, Brasov, Romania.

60. **Marius Rădulescu**, Radulescu S., *A generalized Dobrushin coefficient in the sense of Hartfiel-Rothblum and applications to the limit of matrix power,* 7th Congress of Romanian Mathematicians, June29-July 5, Brasov, Romania.

61. **Marius Rădulescu**, Radulescu S., *The Maksa-Volkmann conjecture on the norm super-additive functions*, 7th Congress of Romanian Mathematicians, June29-July 5, Brasov, Romania.

62. **Marius Rădulescu**, Radulescu S., *A generalized Dobrushin ergodicity coefficient in the framework of Banach spaces*, A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011, Bucuresti, Romania.

63. **Mariana Sibiceanu,** *On the rate function of the large deviation principle for empirical measures associated with an ergodic mixing chain*, A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011, Bucuresti, Romania.

64. **O. Simionescu-Panait**, Inhomogeneous plane waves in monoclinic crystals subject to a bias, GAMM 2011, TU Graz, Austria, aprilie 2011.

65. **O. Simionescu-Panait,** *TH-waves propagation in crystals subject to initial fields*, 7-th Congress of Romanian Mathematicians, Braşov, iunie-iulie 2011.

66. **O. Simionescu-Panait,** *Spectral properties of guided waves propagation in electroelastic materials*, Int. Conf. on Nonlinear Operators, Differential Eqs. and Applications ICNODEA 2011, Cluj, iulie 2011

67. **Aurel Spătaru**, *Improved Convergence Rates for Tail Probabilities for Sums of i.i.d. Banach Space Valued Random Vectors*, A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011.

68. **I.M. Stancu-Minasian**, Narcisa Teodorescu, **Andreea Mădălina Stancu**, *Metode de prox-regularizare pentru programarea fracţionară generalizată*. A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011.

69. **Andreea Mădălina Stancu**, **I.M. Stancu-Minasian**, *Sufficiency criteria in continuous-time nonlinear programming under generalized (α,ρ)-(η,θ)-type I invexity. Application to a class of variational-type inequalities*. 7th Congress of Romanian Mathematicians. June 29-July 5, 2011, Braşov, Romania.

70. **Andreea Mădălina Stancu, I.M. Stancu-Minasian,** *On general duality models in multiobjective fractional programming with n-set functions*, 10th International Symposium on Generalized Convexity and Monotonicity, August 21-27, 2011, Cluj-Napoca, Romania.

71. **I.M. Stancu-Minasian, Andreea Mădălina Stancu**, *Duality for multiple objective fractional programming with generalized type-I univexity*, 1st International Symposium & 10th Balkan Conference on Operational Research (BALCOR 2011), 22-24 September, Thessaloniki, Greece.

72. Alin Marian Rusu, **Andreea Mădălina Stancu,** *About Tsallis entropy: stability and convergence*, 10th International Symposium on Generalized Convexity and Monotonicity. August 22-27, 2011, Cluj-Napoca, Romania.

73. Cerasela Tănăsescu, Alain Bretto, **Andreea Mădălina Stancu**, *Incidence Graphs of bipartite G-graphs*, 1st International Symposium & 10th Balkan Conference on Operational Research (BALCOR 2011), 22-24 September, Thessaloniki, Greece.

74. **Andreea Mădălina Stancu, I.M. Stancu-Minasian,** *Some general duality models in multiobjective fractional programming with n-set functions*, International conference on Optimization Theory, Algorithms and Applications in Economics. Bellaterra, Spain, oct. 24-28, 2011.

75. **Aida Toma**, (***invited speaker*** at the special session *"Building models and handling statistical inference"*, organized by prof. Vladimir Zaiats) *Estimation Criteria Based on Pseudodistance Minimization,* , 14th Applied Stochastic Models and Data Analysis Conference – ASMDA 2011, Rome, Italy, 6-10 Iunie 2011.

76. **Aida Toma**, *Robust estimation for financial returns: an approach based on pseudodistance minimization,* 7th Congress of Romanian Mathematicians, June29-July 5, Brasov, Romania.

77. **Aida Toma**, *Decomposable pseudodistances and applications in continuous families,* A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011, Bucuresti, Romania.

78. **Udrea Păun**, *Ergodicity coefficients: applications to approximate computation*, A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011, Bucuresti, Romania.

79. **Laurentiu Silviu Vasile**, Velcescu, L., *Estimation of the selectivity factor for a set of queries*, The Second International Conference on Modelling and Development of Intelligent Systems- MDIS 2011, Sibiu, Romania, 29 septembrie - 1 octombrie 2011

80. **Raluca Vernic,** (i**nvited speaker**) – *"Risk capital decomposition based on the Conditional Tail Expectation for some multivariate models"*. 2nd Workshop on Actuarial Science and Risk Measures, University of Piraeus, Grecia, 14 mai 2011.

81. **Raluca Vernic**, Ungureanu, D, *A fuzzy approach to the ruin proble,* A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011, Bucuresti, Romania.

82. **Gheorghiță Zbăganu**, O*n Mediator Property*, 7th Congress of Romanian Mathematicians, June29-July 5, Brasov, Romania.

83. **Gheorghiță Zbăganu**, *On Markov Hidden Models*, Conferinta Matematicienilor din Republica Moldova, 22-26 august 2011, Chisinau

84. Alexandru Corlan, **Gheorghiță Zbăganu**, *On Markov chains with random time dependence*, A 14-a Conferinta a Societatii de Probabilitati si Statistica din Romania - 29-30 aprilie 2011.

Comunicări la conferințe naționale

1. Mircea Gogu-Bogdan, Constantina Chireceanu, **Voicu Boscaiu,** *Dynamics of Ornithological Fauna along the Black Sea Shore in the Danube Delta,* Al treilea Congres Anual de Zoologie al Muzeului "Grigore Antipa" (CZGA 2011), 23-25 Noiembrie 2011 (www.czga.ro).

Lista studiilor publicate pe internet

1. T. Deselaers, **Bogdan Alexe**, V. Ferrari, Learning object classes with generic knowledge, ETH Zurich, Technical Report 275, August 2011
http://www.vision.ee.ethz.ch/~calvin/Publications/deselaers11ijcv-techreport.pdf

2. **Bogdan Alexe**, T. Deselaers, V. Ferrari, *Measuring the objectness of image windows*,
ETH Zurich, Technical Report 276, August 2011
http://www.vision.ee.ethz.ch/~calvin/Publications/alexe11-techreport.pdf.

3. **Marius Rădulescu**, Rădulescu C.Z., **Gheorghiță Zbăganu**, *A portfolio theory approach to crop planning under environmental constraints*, Annals of Operations Research, DOI: 10.1007/s10479-011-0902-7, (lucrare publicata online in jurnal cotat ISI), (F.I.= 0.961)

4. Rădulescu S., **Rădulescu M.**, Diaz Barrero J. L., Alexandrescu P., *Two Families of Cyclic Inequalities, Mathematical Inequalities and Applications*, (lucrare publicata online in jurnal cotat ISI), (F.I.= 0.524).

5. **Aurel Spătaru,** *Only the first term of some series counts*,
http://dx.doi.org/10.1016/j.spl.2011.05.012

6. **Aurel Spătaru,** *Improved Convergence Rates for Tail Probabilities for Sums of i.i.d. Banach Space Valued Random Vectors*
http://dx.doi.org/10.1016/j.jmaa.2011.07.056

Preprinturi naționale

1. **Anca Veronica Ion***, On the computation of the term $w_{21}u^2\bar{u}$ of the series defining the center manifold for a scalar delay differential equation,* arXiv:1110.40.90

Lista granturilor obținute în acest an din străinătate

1. **Denis Enăchescu (**member in the Management Committee**),** Marius Popescu, **Cornelia Enăchescu**, Ion Iancu, **Alexandru Agapie**, Liviu Ciortuz, *Cognitive Radio and Networking for Cooperative Coexistence of Heterogeneous Wireless Networks*, *COST Action I0902,*
   http://w3.cost.esf.org/index.php?id=177&action_number=IC0902

2. **Denis Enăchescu (**member in the Management Committee**), Cornelia Enăchescu**, Marius Popescu, Lixăndroiu Dorin, **Alexandru Agapie**, Dalia Simona Miron, **Luiza Bădin**, Flavian Ștefan Rădulescu, *Knowledge Discovery from Moving Objects (MOVE), COST Action I0903* member in the Management Committee
   http://w3.cost.esf.org/index.php?id=177&action_number=IC0903

Lista granturilor în curs de derulare în acest an în țară (MEC)

1. **Miruna Beldiman**, Contract PN-II-RU-PD-2011-3-0102 nr. 7/05.10.2011. Titlul: *Probleme de echilibru abstracte si aplicatii*. Director

2. **Alexandru Dumitrache**, Contract PN II 72-181/ 2008, *Optimizarea aerodinamica a motoarelor turbopropulsoare in vederea cresterii sigurantei zborului si a reducerii nivelului de poluare*, Et. 5/2011 (finala),

3. **Gabriela Marinoschi**, Contract PN II IDEI ID_70/2008, *Ecuatii neliniare de difuzie in teoria mediilor poroase, biometrie si restaurarea imaginilor,* director de proiect (suma pentru 2011: 203318 lei)

4. **Cornelia Enăchescu** (responsabil contract din partea ISMMA al unui proiect în cadrul programului PARTENERIATE IN DOMENIILE PRIORITARE, contract 42135-01-10-2008, Act Adițional 1-26-11-2008 HIDROFOB) (2008-2011) *Criterii biofarmaceutice de optimizare a profilului de siguranță și eficacitate pentru medicamente hidrofobe,* (suma. 2011: 45.000 lei).

5. **Marius Rădulescu**, Program IDEI_Proiecte de Cercetare Exploratorie_Competitie 2011, grantul intitulat: *Portfolio selection models and applications*

Manifestări științifice organizate de institut

1. **A 14-a Conferință a Societății de Probabilități și Statistică din România**, 29-30 Aprilie 2011, Bucuresti, România.

2. **Conferinta "Caius Iacob" de Mecanica Fluidelor si Aplicatiile ei Tehnice**, Bucuresti, 29-30 Septembrie, 2011, 44 comunicari, 80 participanti, 5 particiapnti din strainatate

Lucrări în curs de publicare sau trimise spre publicare

Capitole in carti :

1. Iordache Virgil, Lacatusu Radu, Daniel Scradeanu, Marilena Onete, **Stelian Ion**, Ioana Cobzaru, Aurora Neagoe, Florian Bodescu, Denisa Jianu, Dorina Purice, *Contributions to the theoretical foundations of integrated modeling in biogeochemistry and their application in contaminated areas*, in Kothe E, Varma A (Eds) Biogeointeractions in contaminated soils, Springer, 212

Articole:

1. **Alexandru Agapie**, Mircea Agapie, **Gheorghita Zbaganu,** *Evolutionary algorithms for continuous space optimisation*, International Journal of Systems Science, DOI:10.1080/00207721.2011.605963, 2011

2. T. Deselaers, **Bogdan Alexe**, V. Ferrari, *Learning object classes with generic knowledge*, In curs de publicare la IJCV - International Journal of Computer Vision.

3. **Bogdan Alexe**, T. Deselaers, V. Ferrari, *Measuring the objectness of image windows*, Trimis spre publicare la PAMI - Pattern Analysis and Machine Intelligence

4. **Bogdan Alexe**, V. Petrescu, V. Ferrari, *Exploiting spatial overlap to efficiently compute appearance distances between image windows*, In curs de publicare la NIPS – Neural Information Processing Systems, Granada, Spain, December 2011

5. **Mioara Buiculescu**, *Some aspects of λ-theory for a class of Feller processes*, Rev. Roumaine Math.Pures Appl.

6. **Stefan G. Cruceanu**, **Ana Maria Răducanu**, *Numerically tracing homotopy paths for nonlinear systems,* ROMAI Journal, vol. 7, no. 2 (2011) in curs de aparitie.

7. **Horia Dumitrescu,**, **Vladimir Cardoş,** *Inboard Stall Delay due to Rotation*, DOI: 10.2514/1.C031329, Journal of Aircraft, 2011 accepata

8. **Alexandru Dumitrache**, **Florin Frunzulica, Horia Dumitrescu**, *Analysis of Combustion and Turbulence Models in a Cylindrical Combustion Chamber*, Progress in Industrial Mathematics at ECMI 2010, Vol. 17, 2012, ISBN 978-3-642-25099-6 apare 2012

9. **Florin Frunzulica, Alexandru Dumitrache**, Octavian Preotu, **Horia Dumitrescu**: *Control of two-dimensional turbulent wall jet on a Coanda surface* (sent to PAMM J.)

10. **Alexandru Dumitrache, Florin Frunzulica**, Octavian Preotu, **Horia Dumitrescu**: *Numerical analysis of turbulent flow in a Coanda ejector* (sent to PAMM J.)

11. **Anca Veronica Ion**, *On the computation of the term $w_{21}u^2\bar{u}$ of the series defining the center manifold for a scalar delay differential equation,* Journal of Dynamics and Differential Equations

12. **Valentin Ionescu**, *A matrix Cauchy-Schwarz type inequality and the Boolean product of operator-valued linear maps defined on involutive algebras*, va apare in Proceedings of The Romanian Academy, series A, 2012

13. **Marius Iosifescu**, *On Gauss' problem for the Luroth expansion*, Rev. Roumaine Math.Pures Appl.

14. **Gabriela Marinoschi**, *A Trotter-Kato type theorem in the weak topology and an application to a singular perturbed problem*, J. Math. Anal. Appl. va aparea in 2012

15. A. Favini, **Gabriela Marinoschi**, *Identification for degenerate problems of hyperbolic type*, Aplicable Analysis, va aparea in 2012

16. A. Favini, **Gabriela Marinoschi**, *Degenerate diffusion equations*, Lecture Notes in Mathematics, Springer, under review.

17. **A.M. Marinov**, *How sustainable agriculture can improve groundwater quality: a model study for a soil and aquifer case*, Journal of Environmental Science and Health, Part A, acceptata

18. Juncu Gh., Nicola A., **Constantin Popa**, *Nonlinear multigrid methods for numerical solution of the variably saturated flow equation in two space dimensions*, Transport in Porous Media, DOI 10.1007/s11242-011-9831-9, 07.09.2011; ISSN 0169-3913; Relative Influence Score (RIS) - 1.60.

19. **Mihai Popescu,** *Optimal feedback control and two-point boundary value problem for system with parameter*, Journal of Optimization Theory and Applications, (Springer , USA) acceptata

20. **Mihai Popescu,** A. Dumitrache, *Optimal Control of affine nonlinear nilpotent systems for Lagrange quadratic functionals*, Proceedings 11th Conference on Dynamical Systems - Theory and Applications, 5-8 dec 2011, Lodz , Poland. Acceptata

21. **O. Simionescu-Panait**, *Inhomogeneous plane waves in monoclinic crystals subject to a bias*, PAMM, 2011 (va apare).

22. **Anisoara Maria Raducan**, *Aggregate loss for a special class of claims*, urmează a fi publicat în proceedingul celei de a XI-a   sesiuni de comunicări ştiinţifice a Catedrei de Matematică şi Informatică din Universitatea Tehnică de Construcţii Bucureşti

23. **Gheoghe Rautu,** *A spectral decomposition for random sheets with independent variations on non-overlapping areas*, Mathematical Reports

24. **Gheoghe Rautu,** *Recovering i.i.d. sequences from Poisson random measures*, Mathematical Reports

25. **Udrea Paun,** *A hybrid Metropolis-Hastings chain*, Rev. Roumaine Math. Pures Appl.

26. **Udrea Paun,** Reliability at time v: from a general upper bound to some special upper bounds.

27. **Udrea Paun,** Equations and inequalities for reliability

28. **Aurel Spataru**, Deli Li, Asimptotics related to a series of T. L. Lai

29. Michel   Broniatowski,   **Aida   Toma**,   Igor   Vajda,   (2011)   Decomposable pseudodistances and applications in statistical estimation, trimisa.

Lista lucrărilor elaborate în cursul anului 2010 în cadrul fiecărei teme de cercetare

Programul de cercetare nr. 1: Ananliza stocastică: probleme speciale de convergenţă a variabilelor aleatoare, de teoria probabilistă a numerelor, de teoria proceselor Markov şi calcul stocastic.

1. **Mioara Buiculescu,** *Proprietăţi de convergenţă asociate proceselor Feller cu explozie rapidă.*
2. **Valentin Ionescu**, *On Boolean product of completely positive maps* II.
3. **Valentin Ionescu**, *Boolean independence and Boolean cumulants in operator-valued case.*
4. **Valentin Ionescu**, *Produse amalgamate de nuclee Markov necomutative generalizînd construcţii ale lui Biane - Cabanal-Duvillard, Boca, Bozejko-Speicher, Haagerup si Voiculescu.*
5. **Udrea Păun,** *Perturbed finite Markov chains.*
6. **Udrea Păun,** *Δ-ergodic theory and simulated annealing.*
7. **Aurel Spătaru,** *Upper bounds for series involving moderate and small deviations.*
8. **Aurel Spătaru,** *Series of Tail Distributions of Finitely Inhomogeneous Random Walks.*

9. **Aurel Spătaru,** *The law of the iterated logarithm for filitely inhomogeneous random walks*

Programul de cercetare nr. 2: Modele statistice multidimensionale, liniare şi neliniare, cu aplicaţii

1. **Alexandru Agapie**, *Teoria algoritmilor evoluţionari. Modelare stochastică.*
2. **Bogdan Alexe,** *Object detection/ Object recognition*
3. **Luiza Bădin,** *Metoda bootstrap şi aplicaţii în modele de frontieră, metode de estimare neparametrică a frontierelor de producţie, simulări Monte Carlo*
4. **Voicu Boşcaiu,** *Modele statistice în bioinformatică*
5. **Cornelia Enăchescu,** *Mixed models analysis. Applications to the medical data.*
6. **CorneliaEnăchescu,** *Modele statistice pentru studiul bioechivalenţei medicamentelor*
7. **Cornelia Enăchescu,** *Kernel for in vitro dissolution profile comparision*
8. **Denis Enăchescu,** *Data Mining. Metode şi aplicaţii*
9. **Denis Enăchescu,** *Methods for approximating the distribution of a randomly weighted sum of random variables using kernel and neural network methods*
10. **Florentina Suter,** *Simulare stocastică, Probabilităţi aplicate*
11. **Aida Toma,** *Metode statistice robuste utilizând divergenţe*
12. **Laurenţiu Vasile,** *Contributii in criptografie si teoria codurilor*
13. **Raluca Vernic**, *Matematici actuariale.*

Programul de cercetare nr. 3: Modele speciale de programare matematică şi optimizare neliniară cu aplicaţii

1. **Miruna Beldiman,** *Teoria echilibrului, Inegalităţi variaţionale, Optimizare matematica, Programare neliniara, Mecanica solidelor.*
2. **Marius Rădulescu,** *Modelare matematica, cercetari operationale, teoria portofoliilor, programare matematica.*
3. **Vasile Preda,** *Optimizare matematica, Programare neliniara, Teoria echilibrului, Inegalitati variationale, Actuariat, Teoria informatiei.*
4. **Ioan M. Stancu-Minasian,** *Optimality and duality in nonlinear programming involving semilocally b-preinvexe and related functions.*
5. **Ioan M. Stancu-Minasian,** *Optimality conditions for nonlinear programming with mixed constraints and ρ-locally arcwise connected functions.*
6. **Andreea Mădălina Stancu,** *Optimality and duality in nonlinear programming involving ρ-semilocally b-preinvexe and related functions.*

Programul 4: Studiul teoretic(calitativ si cantitativ) si numeric pentru sistemele dinamice

1. **C. P. Grunfeld, D. Marinescu** , Uniform Error Bound for a Discretized Approximation of the Boltzmann Equation in the Whole Space

2. **S.G.Cruceanu** and **D.Marinescu**, *Global Minimization Using Cellular Exclusion Algorithm*, The 7th Congress of Romanian Mathe maticians, June29-July 5,

Brasov, Romania

3. **M. Popescu,** *Optimal feedback control and two-point boundary value problem for system with parameter*, Journal of Optimization Theory and Applications,

4. **M. Popescu,** A. Dumitrache, *Optimal Control of affine nonlinear nilpotent systems for Lagrange quadratic functionals*, Proceedings 11th Conference on Dynamical Systems - Theory and Applications, 5-8 dec 2011, Lodz , Poland.

5. **O. Simionescu-Panait**, *Inhomogeneous plane waves in monoclinic crystals subject to a bias*, GAMM 2011, TU Graz, Austria, aprilie 2011.

6. **O. Simionescu-Panait,** *TH-waves propagation in crystals subject to initial fields*, 7-th Congress of Romanian Mathematicians, Braşov, iunie-iulie 2011.

Programul 5: Metode numerice si analitice in studiul miscarii fluidelor.

1. **Adrian Carabineanu**, **Horia Dumitrescu**, **Vladimir Cardoş** *Floor and Tunnel Effects for the Oscillatory and Undulatory Motions of Aquatic Animals,* The Seventh Congress of Romanian Mathematicians, June 29 - July 5, 2011, Brasov, Romania .**,** *Stall-delay modeling of wind turbine blades*, Proceedings of the GAMM 82nd Annual Scientific Conference in Graz, Austria, April 18- 21, 2011.

2. **Horia Dumitrescu** and **Vladimir Cardoş**,*New model for inboard stall-dela,* Proceedings of the XXXIIIrd "Caius Iacob" National Conference on Fluid Mechanics and its Technical Applications 2011, September 29 – 30, Bucharest, Romania.

3. **Al. Dumitrache**, **F. Frunzulica**, *Preface of the Symposium "State of the Art of Modeling and Numerical Analysis for Wind Turbines"*, 9th International Conference of Numerical Analysis and Applied Mathematics, Halkidiki, Grecia, 19-25 Septembrie 2011.

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5. **Al. Dumitrache**, **F. Frunzulica**, *Unsteady convective diffusion of a solute in a Hagen-Poiseuille flow through a tube with permeable wall,* A 33-a editie a Conferintei "Caius Iacob" de Mecanica Fluidelor si aplicatiile ei tehnice – 2011, September 29 - 30, 2011, Bucharest, Romania.

Programul 7: Modelare matematica in stiintele vietii si mediului

1. **S.G.Cruceanu and D.Marinescu,** *Nonlinear Global Optimization with Constrains Using the Cellular Exclusion Algorithm*, The 33rd "Caius Iacob" Conference on Fluid Mechanics and its Technical Applications, sept. 2011, Bucuresti.

2. **Anca Veronica Ion**, *On the computation of the term $w_{21}u^2\bar{u}$ of the series defining the center manifold for a scalar delay differential equation,* 19th Conference on Applied and Industrial Mathematics – CAIM 2011, Iasi, 23-25 septembrie 2011.

3. **Stelian Ion**, Anca Veronica Ion, *Flow of a class of pseudo-plastic fluids through pipes*, Al Saptelea Congres al Matematicienilor Romani, Brasov, 29 iunie- 5 iulie 2011.

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8. **D. Popescu** and A.G. Popescu, *The intelligent pulsatory liposome,* The 33rd "Caius Iacob" Conference on Fluid Mechanics and its Technical Applications, 2011**,** September, 29-30, Bucharest, Romania

9. **Constantin Popa***, Contractive projection-based iterations for linear least squares problems*; lucrare prezentata la International Conference on Nonlinear Operators, Differential Equations and Applications, July 5-8, 2011, Cluj Napoca

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