

Communications CAIM 2019

Corneliu Salisteanu	Subject reserved	Plenary
Horia Pop	Fuzzy data analysis. A fuzzy model for uninominal elections	Plenary
Mitrofan Choban	Geometry of distances via fixed point problem	Plenary
N. Limnios	Diffusion approximation of near critical branching processes in random environment	Plenary
Cristian Anghel	On Duflo's conjecture in algebraic geometry	Algebra&Geometry
Liubomir Chiriac, Natalia Lupasco, Natalia Josu	On topological subtractive groupoids with multiple identities	Algebra&Geometry
Boris Taralunga	A note on a diophantine exponential equation	Algebra&Geometry
Catalin Sterbeti	About interpretation of some classical problems of geometry in indefinite relativistic metric	Algebra&Geometry
Dumitru Botnaru	The $\tau$ - $\sigma$ -dual subcategories	Algebra&Geometry
Galina Banaru	Kirichenko--Uskorev structures on hypersurfaces of Kahlerian manifolds	Algebra&Geometry
Ion Cucu	On generalization of expressibility and completeness in super-intuitionistic logics	Algebra&Geometry
Lungu Alexandru	Finite cristallographic pseudo-minor groups of $w_p$ -symmetry	Algebra&Geometry
Mihail Banaru	On $acm$ -structures on hypersurfaces of hermitian manifolds	Algebra&Geometry
Ömür Deveci	The Padovan-Jacobsthal numbers modulo	Algebra&Geometry
Vasile Ursu	The Holder theorem for monoassociative right-ordered loops	Algebra&Geometry
Paula Homorodan	Fixed point theorems in spaces with distance	Algebra&Geometry
Baris Celik and Erhan Set	On new integral inequalities using mixed conformable fractional integrals	Analysis
Calin Ioan Gheorghiu	Two open problems concerning quasi-periodic eigenproblems.	Analysis
Galina Banaru	Kirichenko--Uskorev structures on hypersurfaces of Kahlerian manifolds	Analysis
Nicusor Minculete	Several norm inequalities with applications to $p$ -angular distance	Analysis
Marcelina Mocanu	Barrlund metrics and hyperbolic type metrics in plane	Analysis
George Popescu	Terraced Matrices, Rhaly Operators, Statistical Density	Analysis
Cristina Stamate	Pettis-types integrals for vector multifunctions	Analysis
Dan-Mircea Bors, Anca Croitoru	Weakly bounded functions between normed weak linear spaces	Analysis

Erdal Unluyol and Yeter Erdas	Some new inequalities for s-convex functions in the second sense via Holder-Iskan integral inequality	Analysis
Erdal Unluyol and Yeter Erdas	Hermite-Hadamard-Fejer type inequalities for p-convex functions via $\alpha$ -generator	Analysis
Mustafa Gurbuz And Ahmet Ocak Akdemir	Hadamard type inequalities for co-ordinated convex functions via fractional integrals	Analysis
Mustafa Gurbuz, Ahmet O. Akdemir, Saima Rashid	Some new inequalities via fractional integrals of Caputo-Fabrizio type	Analysis
N.V. Snizhko	Bisingular integral operator with a Cauchy kernel in generalized Holder spaces	Analysis
Omer Gok	On the class of AM-compact operators	Analysis
Costica Morosanu	Numerical approximation for a nonlocal Allen-Cahn equation supplied with non-homogeneous Neumann boundary conditions. Case 1D	Analysis
Silviu Paval	Numerical approximation for a nonlocal reaction-diffusion equation supplied with non-homogeneous Neumann boundary conditions. Case 1D	Analysis
Vladislav Seichiuc, Eleonora Seichiuc, Gheorghe Carmocanu	Algorithms of spline-collocation and spline-quadratures methods for solving integral equations of the second kind	Computers
Titchiev Inga	Solving of some logical mathematical problems by means of Petri nets	Computers
Eugen Mandrescu	On the annihilation number of a bipartite graph	Computers
Cecil P. Grunfeld	On the well-posedness of the Cauchy problem for a nonlinear evolution equation in an ordered Banach space	Dynamical System
Ihor Cherevko, Andrew Dorosh	Boundary value problem solution existence for linear integro-differential equations with many delays	Dynamical System
Ihor Cherevko, Iryna Tuzyk	Approximation schemes of differential-functional equations and theirs application	Dynamical System
Alexandru Suba, And Silvia Turuta	Centers in cubic differential systems with an affine invariant straight line of multiplicity two and the line at infinity of multiplicity three	Dynamical System
Aurelian Cernea	On the solutions of a hyperbolic integro-differential inclusion of fractional order	Dynamical System
Bucur Maria Liliana and Efre Maria Raluca	Bifurcations study of a bidimensional dynamical system	Dynamical System

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Bujac Cristina, Schlomiuk Dana, Vulpe Nicolae	Configuration of the type (3,1,1,1) for a subfamily of cubic systems	Dynamical System
Carmen Rocsoreanu and Mihaela Sterpu	Some types of behavior for a degenerate double hopf bifurcation	Dynamical System
Dana Constantinescu, Raluca Efrem	Hopf and double Hopf bifurcation in a system of coupled oscillators	Dynamical System
Dumitru Cozma	Integrability conditions for a cubic differential system with one invariant straight line and one invariant cubic	Dynamical System
Mircea Lupu, Cristian-George Constantinescu, Gheorghe Radu	The absolute stabilization and the optimal control of nonlinear dynamical systems for special cases. Flight control systems in the case of rolling oscillations	Dynamical System
Natalia Neagu, Victor Orlov and Mihail Popa	Invariant stability conditions of unperturbed motion governed by critical differential system $s(1,2,3)$ on a singular invariant manifold	Dynamical System
V. Ababii, V. Sudacevski, M. Oşovschi and A. Dubovoi	Distributed applications for real time control systems	Dynamical System
Vadim Repesco	Qualitative study of cubic differential systems with invariant straight lines of total multiplicity seven along one direction	Dynamical System
Vitalie Putuntica	Family of quadratic differential systems with invariant ellipse and a invariant straight line of maximal multiplicity	Dynamical System
Rodica Luca Tudorache, Johnny Henderson	Existence of nonnegative solutions for a fractional integro-differential equation	Dynamical System
Afanas Dorin	Impactul modelelor matematice în activitatea studenţilor	Education
Aureliu Danilov, Liubomir Chiriac	Unele aspecte didactice privind studierea fundamentelor algebrice la specialitatea informatică	Education
Bordan Valeriu, Haşdeu Mihaela	Un exemplu de grup ciclic definit pe mulţimea soluţiilor unor ecuaţii binome	Education
Braicov Andrei	Competenţa de creare a conţinuturilor digitale educaţionale de către profesorii de matematică	Education
Calmuţchi Laurenţiu	Problemele geometrice cu parametri – eficient mijloc de dezvoltare a gândirii logice şi deprinderilor de cercetare la elevi şi studenţi	Education
Ciobanu Mitrofan, Sali Larisa	Sugestii didactice privind predarea-învăţarea elementelor de logică	Education

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Eugenia Chiriac, Boris Nedbaliuc, Sofia Grigorcea	Simetria – concept matematic fundamental în studierea naturii	Education
Gasnaș Ala	O abordare bazată pe proiect pentru predarea programării orientate pe obiecte	Education
George Popescu	Natural versus artificial in teaching mathematics	Education
Globa Angela	Crearea resurselor digitale pentru disciplina matematica – element cheie în dezvoltarea competențelor digitale ale profesorilor școlari	Education
Marina Toma	Proceptul- simbioză între proces și concept	Education
Marius Mîinea	Exploatarea inegalităților în probleme de analiză matematică	Education
Mihaela Gabor, Teodora Popa	Exemple de învățare integrată în ciclul liceal	Education
Olesea Caftanатов, Lucia Erhan	Gamification – a new trend in e-learning	Education
Olga Izbaș, Vladimir Izbaș	Despre analysis și generalizarea problemelor de matematică	Education
Petre Rotaru Postolachi Igor	Metodica realizării analizei termice diferențiale pentru semiconductori de tipul gasb(gd)	Education
Popov Lidia	Elaborarea modelului pedagogic de formare și dezvoltare a competențelor digitale la studenți Prin tehnologiile interactive la cursul universitar tic	Education
Stepanov Zahar	Role of the visual task in programming training	Education
Teleucă Marcel, Sali Larisa	Aspecte ale dezvoltării abilităților de demonstrare a inegalităților matematice pentru diverse niveluri cognitive	Education
Țurcanu Alina, Cerbu Olga, Domentean Rita	Integrala definită a unor funcții discontinue	Education
Vasca Teodora	Unele aspecte ale competențelor profesionale ale viitorilor specialiști informaticieni	Education
Velicu Georgiana	Evaluarea prin competențe a conținuturilor matematice – proces fundamental al actului didactic universitar	Education
Violeta Bogdanova, Liubomir Chiriac	The potential of the discipline "information security" in the digital competence formation in training future economists	Education
Viorica Cornelia Hoffmann-Bront	Metode moderne de evaluare la ora de matematică	Education

Viorica Cornelia Hoffmann-Bront	Avantajele și dezavantajele utilizării mijloacelor de învățământ	Education
Alexandra Băluță, Diana Rotaru, Mihaela Ilie D. Fălie, E. Vasile	Aspects of the entanglement concept	Mathematical Modelling
Daniel Dunea, Emil Lungu, Stefania Iordache, Laurentiu Predescu	Modelling of the evapotranspiration processes in wetlands based on remote sensing resources	Mathematical Modelling
Irina Dmitrieva	Mathematical modelling, explicit results and numerical implementation for the cavity resonator	Mathematical Modelling
Julian Dimitrov	Properties of relative asymmetric near-metric spaces and applications	Mathematical Modelling
Muca M., Dhame A.	Multidimensional scaling as tool to analyze the structure in datasets : an application for understanding brain connectivity	Mathematical Modelling
Oliver Magdun, Alin Pohoata, Otilia Nedelcu, Corneliu Salisteanu	Lumped parameter model for steady state heat transfer calculation in interconnected electrical systems and fluids	Mathematical Modelling
Prince Harvim, Hong Zhang, Paul Georgescu, Lai Zhang	Transmission dynamics and control mechanisms of vector-borne diseases with active and passive movements between urban and satellite cities	Mathematical Modelling
Stelian Ion, Dorin Marinescu, Stefan-Gicu Cruceanu	Shallow water model for flow on vegetated landscape	Mathematical Modelling
Iurie Baltag	On some particular and exact solutions of the stationary bidimensional Navier-Stokes equation	PDE
Maria-Magdalena Boureanu	Variable exponent problems on non-smooth domains	PDE
Gelu Pasa	A particular eigenvalue problem	PDE
Cataranciu Emil	Parallel algorithm to determine the Nash solutions in bimatrix games	Prob.&Optim.
D. Calugari, V. Ababii, V. Sudacevschi, R. Melnic, D. Bordian And A. Dubovoi	Parallel data processing for PCB testing	Prob.&Optim.
Gh. Zbaganu	On a conjecture concerning the broken stick model	Prob.&Optim.
Hancu Boris	Solving 2d block-cyclic distribution bimatriceal games	Prob.&Optim.
Inga Bulat	Method and instruments for risk assessment in the audit process of public entities	Prob.&Optim.
Irinel Dragan	On the coalitional rationality and the egalitarian nonseparable contribution	Prob.&Optim.

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Ludmila Novac	Mathematical models for risk management options	Prob.&Optim.
Margarita Karaliopoulou	Applications of Discrete time semi-Markov processes in sequences of letters	Prob.&Optim.
Tatiana Paşa	Solving the non-linear multi-index transportation problem	Prob.&Optim.
Muça M., Hila I.,	Statistical aspects of environmental employees registered in employment offices on 2017-2019:considerations and challenges	Prob.&Optim.
Tkacenko Alexandra	The "bottleneck" multi-objective fractional transportation problem with fuzzy criteria	Prob.&Optim.
Vlad Stefan Barbu, Alex Karagrigoriou, Andreas Makrides	On dynamic modeling in reliability and survival analysis by means of time-varying parameters	Prob.&Optim.
Vasile Postolică	Optimization by the general efficiency	Prob.&Optim.