

PROGRAMME SCHEDULLE

16.09.2009 (Wednesday)

14:00 - 18:00	Registration
18:00 - 18:30	Opening Ceremony
18:30 - 19:30	Cocktail
20:00 - 22:00	Registration

17.09.2009 (Thursday)

8:00 - 12:00	Registration
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Invited talks (Room V)

09:00 - 09:35	Natasha Jonoska: DNA Rearrangements through Spacial Graphs
09:35 - 10:10	Guemtcho Skordev: Automaticity and Self-Similarity of Some Classical Number Tables

10:10-10:30 Coffee brake

	Room I	Room II	Room III	Room IV	Room V	Room VI	Room VII
10:30-10:50	A2	A1	B1	A3	D	A7	WS-3
10:50-11:10	A2	A1	B1	A3	D	A7	WS-3
11:10-11:30	A2	A1	B1	A3	D	A7	WS-3
11:30-11:50	A2	A1	B1	A3	D	A7	WS-3
11:50-12:10	A2	A1	B1	A3	D	A7	WS-3
12:10-12:30	A2	A1	B1	A3	D	A7	WS-3
12:30-12:50	A2	A1	B1	A3	D	A7	WS-3
12:50-13:10	A2	A1	B1	A3	D	A7	WS-3
13:10-13:30	A2	A1	B1	A3	D		WS-3

Lunch

Invited talks (Room V)

17:00 - 17:35	Franz Kappel: A Mathematical Model Comparing Solute Kinetics in Low- And High-Bmi Hemodialysis Patients
17:35 - 18:10	Johan Davidov: Geometry of Para-hyperhermitian Surfaces

18:10-18:30 Coffee brake

	Room I	Room II	Room III	Room IV	Room V	Room VI	Room VII
18:30-18:50	A2	A5	B1	A3	D	C1	
18:50-19:10	A2	A5	B1	A3	D	C1	
19:10-19:30	A2	A5	B1	A3	D	C1	
19:30-19:50	A2	A5	B1	A3	D	C1	
19:50-20:10	A2	A5	B1	A3	D	C1	
20:10-20:30	A2		B1	A3	D	C1	
20:30-20:50	A2			A3	D		

Dinner

18.09.2009 (Friday)

Invited talks (Room V)

09:00 - 09:35	Zoran Sunic: Iterated Monodromy Groups of Interval Foldings
09:35 - 10:10	C. Sidney Burrus: Publishing and Teaching using Open Educational Resources (OER) and XML

10:10-10:30 Coffee brake

	Room I	Room II	Room III	Room IV	Room V	Room VI	Room VII
10:30-10:50	A2	B2	B1	B3	D	C1	WS-2
10:50-11:10	A2	B2	B1	B3	D	C1	WS-2
11:10-11:30	A2	B2	B1	B3	D	C1	WS-2
11:30-11:50	A2	B2	B1	B3	D	C1	WS-2
11:50-12:10	A2	B2	B1	B3	D	C1	WS-2
12:10-12:30	A2	B2	B1	B3	D	C1	WS-2
12:30-12:50	A2				D		

Lunch

14:00 Excursion

Dinner

19.09.2009 (Saturday)

Invited talks (Room V)

09:00 - 09:35	Danilo Gligorovski: Swiss Army Knife in Cryptography and Information Security - Cryptographic Hash Functions
09:35 - 10:10	Stevan Pilipovic: Generalized Stochastic Dirichlet Problem

10:10-10:30 Coffee brake

	Room I	Room II	Room III	Room IV	Room V	Room VI	Room VII
10:30-10:50	A2	A1	C2	A3	D	E	WS-1
10:50-11:10	A2	A1	C2	A3	D	E	WS-1
11:10-11:30	A2	A1	C2	A3	D	E	WS-1
11:30-11:50	A2	A1	C2	A3	D	E	WS-1
11:50-12:10	A2	A1	C2	A3	D	E	WS-1
12:10-12:30	A2	A1	C2	A3	D	E	WS-1
12:30-12:50	A2	A1	C2	A3	D	E	WS-1
12:50-13:10	A2		C2	A3	D	E	WS-1
13:10-13:30	A2			A3	D		WS-1

Lunch

19.09.2009 (Saturday)

Invited talks (Room V)

16:25-17:00	Nikolay Yanev: Branching Stochastic Processes and Cell Proliferation Kinetics
17:00 - 17:35	Doru Stefanescu: Estimates for Roots and Divisors of Polynomials
17:35 - 18:10	Stevan Pilipovic: DAAD Project “Academic Reconstruction in South Eastern Europe”: The Center of Excellence for Application of Mathematics

18:10-18:30 Coffee brake

	Room I	Room II	Room III	Room IV	Room V	Room VI	Room VII
18:30-18:50	A2	A6	B1	C3	D		
18:50-19:10	A2	A6	B1	C3	D		
19:10-19:30	A2	A6	B1	C3	D		
19:30-19:50	A2	A6	B1	C3	D		
19:50-20:10	A2	A6	B1	C3	D		
20:10-20:30		A6	B1		D		

20:30 Official Dinner

20.09.2009 (Sunday)

09:30-10:30	Poster Session
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	Room I	Room II	Room III	Room IV	Room V	Room VI	Room VII
09:30-09:50			C2	A4			
9:50-10:10			C2	A4			
10:10-10:30			C2	A4			
10:30-10:50			C2	A4			
10:50-11:10			C2	A4			
11:10-11:30			C2	A4			
11:30-11:50			C2	A4			
11:50-12:10			C2	A4			

Workshops

WS-1 How to use Connexions (an Open Educational Resource) to teach courses that use math

WS-2 Innovations in Mathematics Education

WS-3 Workshop Astroinformatics

Section A1	Algebra
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Room II**17.09.2009 (Thursday)**

10:30-10:50	Alija Mandak: A Construction Weighted Projective Plane of Order 8 and $(2, 8 - 1)$ -Quasigroup
10:50-11:10	Tsanko Genchev, Elenka Gentcheva: Factorizations of Some Groups of Lie Type of Lie Rank 4
11:10-11:30	Smile Markovski, Vesna Dimitrova: On Solving Quasigroup Equations
11:30-11:50	Peter G.Boyvalenkov, Maya Stoyanova: Improvements of Some Asymptotic Bounds for Spherical $(2k-1)$ -designs
11:50-12:10	Ali Erdogan: Projective Dimension of Universal Modules of Differential Operators
12:10-12:30	Tanja Vučićić, J. Mandić, S. Braić, A. Golemac: Symmetric Designs with Primitive Automorphism Groups of Prime Power Degree
12:30-12:50	Azir Jusufi, Kristaq Filipi: The Upper Nilradical Connected with a Left Ideal in the Ring of Hi-Matrixes on the Field of the Real Numbers
12:50-13:10	Matiadou Niki-Lina, Fellouris Anargyros: On the Square Root Over a Grassmann Algebra
13:10-13:30	Ilinka Dimitrova, Jorg Koppitz: On the Structure of O_n

19.09.2009 (Saturday)

10:30-10:50	Bojana Mihailović, Zoran Radosavljević, Marija Rašajski: On a Characteristic Class of a Tricyclic Treelike Reflexive Graphs
10:50-11:10	Ilinka Dimitrova, Jörg Koppitz: The Maximal Subsemigroups of the Semigroup of all Monotone Partial Injections
11:10-11:30	Lidija Gorachinova-Ilieva: Varieties of $(2,N)$ -Algebras and Mendelsohn Designs
11:30-11:50	Tatiana Lyubanova Todorova: Prime Numbers of the Form $p=a^2+b^2+1$ Such That $p+2$ is Almost Prime
11:50-12:10	Afgan Aslanov: On Bounds of Extremal Eigenvalues of Matrices
12:10-12:30	Nikolay Kolev, Nedyalko Nenov: Bounds on Some Edge Folkman Numbers
12:30-12:50	Simona Samardziska: On the Parastrophes of Polynomial Binary Quasigroups

Section A2	Analysis
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Room I

17.09.2009 (Thursday)

10:30-10:50	Milojica Jacimović: Gap Functions for Variational Inequalities
10:50-11:10	Biljana Jolevska-Tuneska: On the Composition of the Distributions $x^{-s} \ln^m x $ and x_+^μ
11:10-11:30	Katerina Hadzi-Velkova Saneva, Jasson Vindas: Wavelet Expansions and Asymptotic Behavior of Distributions
11:30-11:50	Boris Kats: Approximation Dimension of Non-Rectifiable Arc and the Jump Problem
11:50-12:10	Nikola Tuneski: On a Class of Functions Defined by Takahashi and Nunokawa
12:10-12:30	Nacima Memic: Topics on Unbounded Vilenkin Groups
12:30-12:50	Milica Klaričić Bakula, J. Pečarić, M. Ribičić Penava: General Two-Point and Four-point Quadrature Formulae Based on the Weighted Montgomery Identity and Related Inequalities
12:50-13:10	Anrea Aglič Aljinović, Sanja Kovač, Josip Pečarić: Weighted Two-point Quadrature Formula of Semiclosed Type for Functions of Bounded Variation
13:10-13:30	J. Barić, Anita Matkovic, J. Pečarić: A Variant of the Jensen-Mercer Operator Inequality for Superquadratic Functions

18:30-18:50	Emin Ozcag: On the Incomplete Gamma Function $\gamma(\alpha, x_-)$
18:50-19:10	Serap Oztop: A Characterization For Multipliers of Some Weighted $L^1(G,A)$ - Modules
19:10-19:30	Alexandr Ukhman, L. Kusainova: On Estimates of the Hardy Operator's Approximative Numbers
19:30-19:50	Kamal N. Soltanov: Some Remarks on the Solvability of a Nonlinear Equations and Existence of the Fixed Points
19:50-20:10	Siniša N. Ješić, Nataša A. Babačev: Spaces with Non-Deterministic Distances and Fixed Point Results
20:10-20:30	M. Anwar, J. Pečarić, Mirna Rodic Lipanovic: Cauchy-type Means for Signed Measures
20:30-20:50	Diana Stoeva: Perturbation Conditions for Frames

Section A2	Analysis
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Room I

18.09.2009 (Friday)

10:30-10:50	Ljubisa Kocinac, Dragan Djurčić, Mališa R. Žižović: Rates of divergence of sequences
10:50-11:10	Fehim Dedagic, Sanela Halilovic, Muhamed Smailagic, Elvis Barakovic: On the Solvability of Discrete Nonlinear Hammerstein Systems
11:10-11:30	Živorad Tomovski, Delčo Leškovski: Some New Bounds for Multiple Generalized Mathieu Series and Alternating Matieu Series
11:30-11:50	Senka Banic: On Refining of Inequalities for Convex Functions by the Concept of Superquadracity
11:50-12:10	Serpil Pehlivan: Some Results in Riesz Spaces
12:10-12:30	Aleksa Malcheski, Vesna Manova-Erakovic: A Characterization of N-Seminorm
12:30-12:50	Nikola Rečkoski, Vasko Rečkoski: Boundary Problem for One Class of Analytic Functions

19.09.2009 (Saturday)

10:30-10:50	Celaleddin Sencimen, Serpil Pehlivan: Probabilistic Normed Riesz Spaces
10:50-11:10	Ljupco Nastovski: Characterization of H^p Spaces with Boundary Values in Some Spaces of Beurling Tempered Ultradistributions
11:10-11:30	Anil Rajput: Common Random Fixed Points of Random Multivalued Operator
11:30-11:50	Mirjana Stojanovic: Extension of the Colombeau Theory to the Derivatives of the Real Numbers Order
11:50-12:10	Risto Malčeski: Dual Space on Space of Bounded Linear N-Functionals
12:10-12:30	Andrea Aglic Aljinovic: Error Estimates for Approximations of the Mellin Transform of Functions in L_p Spaces
12:30-12:50	Zeynep Hande Yaman: Weak A-Statistically Pre-Cauchy Sequences
12:50-13:10	Biljana Načevska, Dragan S. Djordjević: Generalized Inverse and Applications in Solving Some Equations and Reverse Order Rule
13:10-13:30	Ana Maria Acu, Heiner Gonska, Ioan Raşa: Ostrowski- and Gruss-type Inequalities: Applications to Approximation Theory

18:30-18:50	Behruze Shojaee, G. H. Esslamzadeh: Connes and Weak-Amenability of L^1 - Munn Algebras and Certain Semigroup Algebras
18:50-19:10	Afgan Aslanov: On the Solvability of a Singular Ordinary Differential Equation
19:10-19:30	Favorov S. Yu., Andriy Rakhnin: Subharmonic Almost Periodic Functions of Slowly Growth
19:30-19:50	Vesna Manova-Erakovic, Stevan Pilipovic, Vasko Reckoski: Boundary Value Representations in Distribution and Ultradistribution Spaces
19:50-20:10	Nevena Vujosevic: Ekeland Variational Principle and Their Applications

Section A3	Differential Equations and Dynamical Systems
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Room IV

17.09.2009 (Thursday)

10:30-10:50	Mihail Kirilov: On the Discrete Dynamical Systems Generated by the Compositions of Finite Automats of Mealy
10:50-11:10	Vladimir Jacimovic: Hopf Bifurcation and "Deeper" Bifurcations Via Second Variation
11:10-11:30	Nedyu Popivanov, Todor Popov, Rudolf Scherer: Semi-Fredholm solvability of 3+1-D Protter problems
11:30-11:50	Ivanka Stamova, D. A. Orozova: Impulsive Control on the Stability of Cellular Neural Networks
11:50-12:10	Tsvetan Hristov, Nedyu Popivanov: Solutions with Isolated Singularity to Protter's Problem for a Class Of 3-D Degenerating Hyperbolic Equations
12:10-12:30	Donco Dimovski, Biljana Zlatanovska: Analysis of Behavior for Lorenz System
12:30-12:50	Snezhana Hristova: Razumikhin Method and Cone Valued Lyapunov Functions for Stability of Impulsive Differential Equations with „Supremum”
12:50-13:10	Handan Akyar, Vakif Dzhafarov: On Contractibility Properties of Families of Stable Polynomials and Matrices
13:10-13:30	Mihailo P. Lazarević, Aleksandar M. Spasić, Ljubiša Bučanović: Fractional Order Van Der Pol Model of Electroviscoelasticity of Liquid/Liquid Interfaces: Analytical and Numerical Solution

18:30-18:50	Liljana Stefanovska, Miloš Čanak, Ljubomir Protić: Laplace's Vector Field For Vekua Differential Equation
18:50-19:10	Miloš Čanak, Liljana Stefanovska, Ljubomir Protić: Schwarz's Function for Vekua Complex Differential Equation
19:10-19:30	Miloš Čanak, Slagjana Brsakoska: One Problem for the Generalized Complex Differential Vekua Equation
19:30-19:50	Slagjana Brsakoska, Borko Ilievski: Two Theorems for the Vekua Equation
19:50-20:10	Marija Kujumdzieva-Nikoloska, Jordanka Mitevka: Some Quasiperiodic Solutions to the System of Linear Differential Equations
20:10-20:30	Boro Piperevski: On a Class of Fibonacci's Polynomial
20:30-20:50	Lazo Dimov: About the Solution of a Linear Differential Equation of Third Degree with Functional Coefficients

Section A3	Differential Equations and Dynamical Systems
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Room IV

19.09.2009 (Saturday)

10:30-10:50	Takači Arpad: On the Fractional Differential Equation
10:50-11:10	Ahmed Safwat Abdel-Rady Saleh Mohamed: Recurrence Relations Between Solutions of Some Elliptic Problems in \mathbb{R}^n and $\mathbb{R}^n +$
11:10-11:30	Maria Karatopraklieva: On a Nonlocal Boundary Value Problem for Hyperbolic-Parabolic Equations: Time Anti-Periodic Solutions
11:30-11:50	Asen S. Radojkov: Contour Task for one Parabolic-Hyperbolic Equation From Second Order
11:50-12:10	Alex Bychkov, Ievgen Ivanov: New Sufficient Conditions for Stability of Hybrid Automata
12:10-12:30	Ivan Hristov Dimovski, Yulian Tsankov Tsankov: Exact Solutions of the Bitsadze – Samarski Problem
12:30-12:50	Ivan Hristov Dimovski: Exact Solutions of Nonlocal Boundary Value Problems for Heat Equations
12:50-13:10	Bratislav Iricanin, E. M. Elsayed: Recent Developments in Some “Unusual” Difference Equations Periodicity
13:10-13:30	Shinohara Katsutoshi: Index Problem for Wild Homoclinic Classes

Section A4	Geometry
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Room VI

19.09.2009 (Sunday)

09:30-09:50	Mancho Manev: Quaternionic Kahler Manifolds with Norden Metric
9:50-10:10	Georgi Ganchev: Minimal Hypersurfaces of Type Number Two in Euclidean space
10:10-10:30	Dimitar Mekerov, Mancho Manev: On the Geometry of the Connection with Totally Skew-symmetric Torsion on a Class of Riemannian Almost Product Manifolds
10:30-10:50	Mehmet Erdogan: Complete Spacelike Hypersurfaces with Constant Scalar Curvature and Sectional Curvatures in De Sitter Space
10:50-11:10	Senay Karapazar, N. Değirmenci: A Dirac Operator on Kahler-Norden Manifolds
11:10-11:30	Kostadin Trenevski: Special Relativity based on $SO_3(C)$ Structural Group
11:30-11:50	Georgi Ganchev, Velichka Milousheva: An Invariant Theory of Surfaces in the Four-Dimensional Euclidean space
11:50-12:10	Ivan Landjev, Assia Rousseva: The Nonexistence of Some Optimal Sres in $PG(4,4)$

Section A5	Logic and Foundation of Mathematics
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Room II**17.09.2009 (Thursday)**

18:30-18:50	Dimitar Vakarelov: DYNAMIC MEREOTOPOLOGY: A Point-free Theory of Changing Regions
18:50-19:10	Nikolay Ivanov: Boolean Syllogistic
19:10-19:30	Vladislav Nenchev: Logics for Stable and Unstable Mereological Relations
19:30-19:50	Tinko Tinchev: On the Strong Completeness of the Logics for Regions
19:50-20:10	Žana Kovijanić Vukočević: A Note on Ramsey Numbers

Section A6	Number Theory
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Room II**19.09.2009 (Saturday)**

18:30-18:50	Vassil Grozdanov, Iovanovski, K. Tzveiovski: Multidimensional Quasi-Monte Carlo Integration in Weighted Sobolev Spaces of Functions Depending on Two Parameters
18:50-19:10	Vassil Grozdanov, Vesna Dimitrievska Ristovska: Multidimensional Quasi-Monte Carlo in Weighted Sobolev Spaces of Functions with Smooth Mixed Derivatives of Order Four
19:10-19:30	Armen Bagdasaryan: What if the Negative Numbers are Beyond Infinity: Some Unusual Theorems About Divergent Series and More
19:30-19:50	Almasa Odzak, Lejla Smajlović: On Li's Coefficients for the Rankin-Selberg L-Functions
19:50-20:10	Gediminas Stepanauskas: Limit Distributions of Additive Prime Indicators and the Asymptotical Properties of Subsequences of Positive Integers
20:10-20:30	Berhadin Ibrahimasic: A Method for Solving Families of Quartic Thue Inequalities

Section A7	Topology
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Room VI

17.09.2009 (Thursday)

10:30-10:50	Dejan Brkic: Gas Distribution Network Topology Problem
10:50-11:10	Georgi Dobromirov Dimov: A Generalization of Stone Duality Theorem
11:10-11:30	Nikola Koceic Bilan: The Coarse Shape and its Invariants
11:30-11:50	Selma Ozcag: Almost 2-Fully Normal ditopological Texture spaces
11:50-12:10	Filiz Yildiz: Remarks on a Type of Extension for Textures
12:10-12:30	Yu. Zelinskii: Continues Mappings Between Domains of Manifolds
12:30-12:50	M. M. Choban, Ekaterina Mihaylova, St. Y. Nedev: Selections and Paracompactness
12:50-13:10	Elza Petrova Ivanova, G. Dimov: On some Categories Arising in the Theory of Locally Compact Extensions

Section B1	Application of Mathematics and Informatics in Sciences
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Room III

17.09.2009 (Thursday)

10:30-10:50	Stefka Bouyuklieva, Zlatko Varbanov: Secret Sharing with a Special Class of Self-Dual Codes
10:50-11:10	Tsonka Baicheva, Iniya Bouyukliev: On the Least Covering Radius of the Ternary Linear Codes With Dimension 4
11:10-11:30	Stela Zhelezova: Cyclic parallelisms of $PG(5; 2)$
11:30-11:50	Marija Mihova, Natasha Maksimova, Kjiro Gjorgjiev: Estimation of Minimal Path Vectors of Multi State Two Terminal Networks with Cycles Control
11:50-12:10	Ivan Trenchev, Nadezhda Borisova: Bioinformatical Research of the Protein Structure with Matlab
12:10-12:30	Dragan Randjelovic: Algorithmic Fault Tolerance Matrix Multiplication on Systolic Arrays
12:30-12:50	Aleksandra Mileva: Analysis of Some Quasigroup Transformations as Boolean Functions
12:50-13:10	Nikola Valchanov, Todorka Terzieva, Anton Iliev: Architecture of Extensible Computations Driven Systems

Section B1	Application of Mathematics and Informatics in Sciences
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Room III

17.09.2009 (Thursday)

18:30-18:50	Elena Karashtranova, Irena Atanasova: A Model for Implementation of the Dependence Between Random Events in Knowledge Bases
18:50-19:10	Georgi Dimkov, Tihomir Trifonov: Church Bells - Part of the Cultural Heritage
19:10-19:30	Todor J. Todorov, Galina T. Bogdanova, Nikolay G. Noev: Organization and Security of the Audio and Video Archive for Unique Bulgarian Bells
19:30-19:50	Lyubomir Ivanov: The New National Standard for the Romanization of Bulgarian
19:50-20:10	Asen Rahnev , Ivaylo Staribratov: Education in Mathematics and new Technologies
20:10-20:30	Emiliya Saranova, Stoyan Poryazov: Re-Dimensioning Sensitivity Estimation Based on Overall Network Teletraffic Theory

18.09.2009 (Friday)

10:30-10:50	Vasos Pavlika: The Calculation of Axisymmetric Duct Geometries with Hagen-Poiseuille Flow for an Incompressible Fluid
10:50-11:10	Dejan Brkic: Lambert W function in Hydraulics Problems
11:10-11:30	Ali Sahin: Diffusion in Graded Materials by Decomposition Method
11:30-11:50	Ivan H. Dimovski, Margarita Spiridonova: A Feasible Linear Model for Tacoma Narrows Bridge Destruction
11:50-12:10	Velislava Stoykova: The Geometry of Language – A Space Semantic Network of Bulgarian Nominal Inflectional Morphology
12:10-12:30	Belov Yu. A., Rabinovich Z. L.: Basic Principles of Structural Organization of the Medium and Thinking Process of the Human and Ability Their Bionic Use to (Conceptual Presentation)

19.09.2009 (Saturday)

18:30-18:50	Nevena Serafimova, Slavko Angelevski: The Role of Military Reconnaissance in the Process of Learning Strategies
18:50-19:10	Zlatka Mateva: New Doubles of Hadamard 2-(15,7,3) designs
19:10-19:30	Tsvetanka Kovacheva: Hierarchical Clustering of the Simulated Data Paths
19:30-19:50	Anastasiya Yurlova: Approximate Solutions of Boundary-Value Problems for the Three-Dimensional Navier-Stokes Equations by Function Theory of Two Complex Variables
19:50-20:10	Mihailo P. Lazarević, Vasilije Vasić: Some Applications of Wavelet Transform: Continuous and Fractional Approach

Section B2	Control Theory, Optimization and Operations Research
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Room II

18.09.2009 (Friday)

10:30-10:50	Ivan G. Ivanov, Boyan M. Lomev: Lyapunov Iterations for Solving to Stochastic H(infty) Control Problems
10:50-11:10	Nevena Serafimova, Slavko Angelevski: The Imprecise Dirichlet Model in Interaction Games
11:10-11:30	Nataša Krejić, Zorana Lužanin, Irena Stojkovska: One Result for Superlinear Local Convergence of Gauss-Newton-Based Bfgs Method With Filter
11:30-11:50	Zdravko Slavov: Compactness and Connectedness of the Pareto-optimal Set in Multi-criteria Maximization
11:50-12:10	Emrah Akyar, A. S. Nazlipinar, Kh. G. Guseinov: On the Compactness Properties of Attainable Sets of Control Systems with P\$-Integrable Controls
12:10-12:30	N.Malod-Dognin, R.Andonov, Nicola Yanev: Maximum Clique Approach to Protein Structure Similarity

Section B3	Mathematical Aspects of Computer Science
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Room IV

18.09.2009 (Friday)

10:30-10:50	Slavcho Shtrakov: On the Subfunctions of Functions with Given Arity Gap
10:50-11:10	Krasimir Yordzhev: Finite-Automation Representation of Linear Recursive Equations
11:10-11:30	Jelena Hadzi-Puric: Choice of Similarity Measures and Cluster Representatives for Categorical Data
11:30-11:50	Dimitar Stoichkov Kovachev: On Some Classes of Functions and Hypercubes
11:50-12:10	Tatjana Lutovac: A Terminating Procedure for Automated Proof Search in Propositional Affine Logic
12:10-12:30	Pellumb Klllogjeri: Computer Programmes Lead to New Mathematical Statements and to New Considerations in the Teaching and Learning Math Science

Section C1	Numerical Analysis and Scientific Computing
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Room VI

17.09.2009 (Thursday)

18:30-18:50	Kerem Kaskaloglu, Sofia Ostrovska: Numerical Computations of Q-Bernstein Polynomials for the Case $q > 1$
18:50-19:10	Elena Babace, Sonja Gegovska-Zajkova, Ljubisa Kocic: Iterative Function Systems with Affine Invariance Property
19:10-19:30	Sonja Gegovska-Zajkova, Ljubisa Kocic, Vesna Andova: Subdivision of Interpolating Polynomials
19:30-19:50	Hesamoddin Derili, A. Arzhang: Numerical Solution of Functional Integral Equations by Using B-Splines.
19:50-20:10	Zlatko Udovicic: One Point Quadrature Rule with Cardinal B-Spline
20:10-20:30	Hakan Gündüz, Gamze Tanoğlu: Higher Order Symplectic Integrators Based on Modified Vector Fields

18.09.2009 (Friday)

10:30-10:50	Boško S. Jovanović, Lubin G. Vulkov: Numerical Solution of a Nonlocal Hyperbolic Transmission Problem
10:50-11:10	Boško S. Jovanović, Miglena N. Koleva, Lubin G. Vulkov: Theoretical and Numerical Analysis of Two-Grid Algorithms for Elliptic Problems on Disjoint Domains
11:10-11:30	Juri Kandilarov, Lubin G. Vulkov: An Immersed Finite Element Method for a Parabolic Problem with Non-standard Moving Source
11:30-11:50	Vasko Kokalanov, Vlatko Sesov: Numerical Simulation of Absorbing Boundary Conditions
11:50-12:10	Gyurhan Nedzhibov, Vejdi I. Hasanov: Newton-Secant Method for Solving Systems of Nonlinear Equations
12:10-12:30	Peter Knoll: Mathematical Methods to Improve Salivary Gland Scintigraphy

Section C2	Stochastic Process and Statistics
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Room III

19.09.2009 (Saturday)

10:30-10:50	Evelina Veleva: Some Properties of the Bellman Gamma Distribution
10:50-11:10	Tibor Pogany, Mato Tudor: Survival Equivalence of Gamma-Weibull Composite System
11:10-11:30	Sladjana Dimitrijević, Ljiljana Petrović: Statistical Causality and Adapted Distribution
11:30-11:50	Jelena Stanojevic: Fastness of Convergens of the Coverage Probability for the Standard Quantile Estimator
11:50-12:10	Dragana Stanojevic, Liljana Petrović: Some Concepts of Statistical Causality and Martingale Property
12:10-12:30	Bozidar Popovic: New Autoregressive Beta (Narb(2)) Model of the Second Order
12:30-12:50	Abdurahim Abdushukurov: Three Types of Nonparametrical Estimates in Censored Samples
12:50-13:10	Jelena Jockovic: Generalized Pareto Distributions in Extreme Value Theory
13:10-13:30	Gorica Pavlovic, Svetlana Jankovic: Moment Exponential Stability of Stochastic Functional Differential Equations with Time-Varying Lags

20.09.2009 (Sunday)

09:30-09:50	Andrii Vlasov, Bychkov A. S.: Stability of Linear Stochastic Hybrid Automata
9:50-10:10	Eugenia Stoimenova: Maximum Deviation in Partial Ranking
10:10-10:30	Svetlana Jankovic, Maja Obradovic: Moment Asymptotic Stability and Integrability of Ito-Volterra Integro-differential Equations
10:30-10:50	Jasmina Djordjevic: The Existence and Uniqueness of Solutions of Backward Stochastic Differential Equations with Poisson Jumps
10:50-11:10	Maja Vasilova, Miljana Jovanovic: Dynamics of a Stochastic Gilpin-Ayala Competition Model
11:10-11:30	Marija Milosevic, Miljana Jovanovic: An Approximate Method for Stochastic Differential Equations with Time-Dependent Delay
11:30-11:50	Marija Krstic, Miljana Jovanovic: Existence, Uniqueness and Stability of Positive Solutions of the Stochastic Population Model with an Allee Effect
11:50-12:10	Elena Karashtranova, Eugenia Stoimenova: Visual Basic for Application for Teaching Statistics

Section C3	Mathematical Finance and Actuarial Science
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Room IV**17.09.2009 (Saturday)**

18:30-18:50	Boyan Lomev, Ivan Ivanov: Empirical Study of Bulgarian Stock Market Efficiency in the Context of the World Financial Crisis
18:50-19:10	Nikolay Netoff, Boyan Lomev, Ivan Ivanov: Econometric Modeling of the Bulgarian Stock Market Volatility
19:10-19:30	Leda Minkova: Polya-Aeppli of Order K Risk Model
19:30-19:50	Ivana Ognjanović: Managing Equity Portfolio with One Asset on Black-Scholes Market with Changeable Parameters
19:50-20:10	E. Pancheva, I. Mitrov: Non-Gaussian Approximation of the Risk Process

Section D	History and Education of Mathematics and Informatics
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Room V**17.09.2009 (Thursday)**

10:30-10:50	Djurdjica Takaci: On the Role of Computer in Teaching
10:50-11:10	Lilyana Apostolova-Politova: Teaching Maths to International Students Through a Combination of Traditional Methods and E-Education
11:10-11:30	Daniela Tuparova, Georgi Tuparov: Students Attitude to the E-Learning
11:30-11:50	Tcanka Mitova: Historical Perspective in Teaching Mathematics
11:50-12:10	Borislav Lazarov: Synthetic Mathematics Competence and the Multiple Choice Competitions
12:10-12:30	Asen Velchev, Philip Petrov: A Trial for Systematization of Methods for Generating and Solving Variations of Discrete Optimization Problems and the Three Jugs Problem as an Example
12:30-12:50	Ivan Mirchev: Model for Teaching and Studying of the Elements of the Graph Theory and Optimization in Different Educational Levels
12:50-13:10	Ivanka Marasheva: Technology of Project Work
13:10-13:30	Chalkou Maria: Mathematics of Byzantine Silversmiths

Section D	History and Education of Mathematics and Informatics
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Room V

17.09.2009 (Thursday)

18:30-18:50	Vanya Danova, Asen Velchev, Yavor Papazov: Computer Methods for Graphical Presentation of Solutions and Equivalence of Systems of Trigonometric Equations for Advanced Students
18:50-19:10	Julia Ninova, Ivan Ganchev: Dependence of Activities in Learning Process on Means
19:10-19:30	Ana Donevska – Todorova, Vesna Manova–Erakovic, Ivan Tonov: Comparative Education of Gifted Students in Mathematics in Some of the South - Eastern Europe Countries
19:30-19:50	Valentina Gogovska, Risto Malcevski: Discovering Mistakes while Solving Mathematics Exercises
19:50-20:10	Iliya Gyudzhenov, Ivan Ganchev, Sava Grozdev: Logical, Practical and Psychological Roots of Certain Mathematical Operations
20:10-20:30	Asen Rahnev, Ivan Shotlekov: Set of Criteria for Development, Self-Evaluation, Peer Evaluation and Assessment of Student-Designed Web Sites in Teaching it
20:30-20:50	Petar Armyanov, Magdalina Todorova: Runtime Verification in Computer Programming Education

18.09.2009 (Friday)

10:30-10:50	Ridvan Mustafov Itsufov, Philip Petrov: First Steps in Constructing a Theory of Educational Dialogue Computer Programs
10:50-11:10	Iordanka Gortcheva, Emil Kelevedjiev: Humanities and Mastering Students' Mathematical and Computer Programming Skills
11:10-11:30	Emil Delinov, Ivanka A. Marasheva: The Problems of the ICT Infrastructure in the Industrial Objects – Adaptation for Students in Economic Majors
11:30-11:50	Jordan Tabov, Asen Velchev: Computer-aided Graphical Solving of Equations of the Form $f(x) = g(x)$
11:50-12:10	Ana Donevska–Todorova, Igor Dimovski: Future Perspectives for Academic Careers of Gifted Students for Mathematics in the Republic of Macedonia
12:10-12:30	Asen Rahnev, Evgeniya Angelova: On Knowledge Structure as a Means to Enhance the Efficiency of Training it Teachers
12:30-12:50	Aleksandar Lipkovski: Cardinals, Ordinals and the Educational Paradigm

Section D	History and Education of Mathematics and Informatics
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Room V

19.09.2009 (Saturday)

10:30-10:50	Zdravko Lalchev, Margarita Varbanova: An Approach for Introducing Numerical Systems in Teaching Primary School Education
10:50-11:10	Svetoslav Jordanov Bilchev: Old and New Equalities and Inequalities for the Lucas Circles of a Triangle
11:10-11:30	Iordanka Gortcheva: Teaching Properties Of Mathematical Objects To Liberal Arts Students
11:30-11:50	Nataliya Hr. Toncheva, Rusanka G. Petrova: Cognitive Functions of the Logical Operations "Seriation" and "Classification" in the Formation of Simple Geometric Concepts
11:50-12:10	Matthias Brandl: Fostering of Gifted Students at Secondary Level
12:10-12:30	Ivanka Mincheva, Juliana Dochkova: Educational Mathematical Internet Games for Children at Preschool and Primary School Age
12:30-12:50	Tania Tonova: Mathematical Teachers' Competencies
12:50-13:10	Ivan Tonov: Mathematical Curricula, Problem Solving and Teaching Proof
13:10-13:30	Chavdar Georgiev Lozanov: Mathematics Curricula – How to Teach Space Geometry?
13:30-13:50	Metodija Janceski: Free and Open Source Software vs. Commercial Software in Education

18:30-18:50	Ibro Vait: The Role of Language in Mathematics
18:50-19:10	Malinka Ivanova: Supporting The Processes of Visual Perception and Reproduction of Spatial Knowledge
19:10-19:30	Linda Fahlberg-Stojanovska, Zoran Trifunov: Visualization of Extrema in Mathematics for Problems in Geometry in Middle School
19:30-19:50	Angel Angelov: Learning Environment for Studying Spreadsheets
19:50-20:10	Plamen Mateev, Maroussia N. Slavtchova-Bojkova: Appearance and Dissemination of Stochastic in Bulgaria
20:10-20:30	Dragos Constantinescu: Math on Musical Notes

Section E	Other Related Topics
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Room VI**19.09.2009 (Saturday)**

10:30-10:50	Margarita Todorova: Efficiency of the Estimate Calculating Algorithms on one Class of Tables Generated by the Multidimensional Boolean Functions
10:50-11:10	Ievgen Ivanov: Lower Bounds for the Values of Extension of the Possibility Measure
11:10-11:30	Safar Khodjiyev: Algorithm of Calculation of Three-Dimensional Turbulent Streams of Reacting Gases
11:30-11:50	Asen Rahnev, Ivaylo Staribratov: Online Administrative Management in High Schools
11:50-12:10	Radoslava Goranova, Vladimir Dimitrov: Using Grid for Mathematical Researches
12:10-12:30	Tereza Trencheva: IP Protection Analysis of the Software in Bulgaria
12:30-12:50	Sevdalina Galabova: IP Protection Analysis of Databases in Bulgaria