

## 2nd INTERNATIONAL CONFERENCE ON "MATHEMATICAL MODELLING IN APPLIED SCIENCES"

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Belgorod State University, Belgorod, Russia August 20 – 24, 2019

## **Conference Program**

Obe	August 20, 2019			
First Plenary Sessions 10h30 - 12h30 Chair: S. Sitnik  10h30-11h10 D. Baleanu, Which classification of fractional operators is the best?  11h10-11h50 V. Romanovski, Hopf Bifurcations and Integrability in Some Biochemical Models  11h50-12h30 V. Kravchenko, Transmutation operator method for practical solution of forward and inverse spectral problems  12h30-14h00 Lunch  First Contributed Talks (SS: 1) 14h00 - 15h40 Chairs: V. Fedorov and E. Shishkina  14h00-14h20 applications  1. Polovinkin, On Properties of Mean Values of Solutions to Linear Hyperbolic Equations  14h20-14h40 V. Polunin, The Moisil-Theodorescu system in complex form  15h00-15h20 N. Uskova, On diagonalization of some class matrices  15h20-15h40 D. Zirem, Learning in the Hidden Markov Chain  Second Contributed Talks (SS: 1) 16h10-17h50 Chairs: V. Fedorov and E. Shishkina  16h10-16h30 Coffee Break & Poster Session 1  Second Contributed Talks (SS: 1) 16h10-17h50 Chairs: V. Fedorov and E. Shishkina  16h30-16h50 Thomas A. Makovetskii, A generalized variational problem of point-to-point ICP  17h10-17h30 M. Dyshaev, Study of option pricing models with insufficient liquidity and transaction costs  17h30-17h50 E. Shishkina, Hyperbolic potentials generated by the Bessel operator  Hall B  First Contributed Talks 14h00 - 15h40 Chair: V. Romanovski  14h00-14h20 N. Levashova, Propagation and Stabilizing of a Front in a Media with Discontinuous Characteristics  14h20-14h40 V. Saenko, Integral representation of the Mittag-Leffler function  A. Melnikova, Boundary Layer Solution for an Elliptic Problem with a Singular Neumann Boundary Condition  15h00-15h20 L. Britvina, Generalized Hankel convolution with two parameters and related shift operator  16h30-16h30 V. Vsaliyev, Fredholm properties of elliptic operators and boundary value problems  Vasendo Contributed Talks 16h10 - 17h30 Chair: V. Kravchenko  V. Vsaliyev, Fredholm properties of elliptic operators and boundary value problems  Visidoryakina, The study of the correctness of the coupled mathematical models of				
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15h20-15h40  A. Kulikov, Local dynamics of the dispersion version of the Cahn-Hilliard equation  Coffee Break & Poster Session 1  Second Contributed Talks 16h10 - 17h50 Chair: V. Kravchenko  16h10-16h30  V. Vasilyev, Fredholm properties of elliptic operators and boundary value problems  V. Beloshapko, Peculiarities of nonlinear system of two-dimensional singularly perturbed differential equations. Time-periodic problem  E. Burlakov, On Volterra-Hammerstein Integral Inclusions and Their Applications  V. Sidoryakina, The study of the correctness of the coupled mathematical models of sediment	14h40-15h00			
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	17h10-17h30	V. Sidoryakina, The study of the correctness of the coupled mathematical models of sediment		

17h30-17h50	17h30-17h50 Y. Virchenko, Divergent second order evolution equations of solenoidal vector field on R^3		
	Hall C		
First	Contributed Talks (SS: 2 & 4) 14h00 - 15h40 Chairs: A. Khastan et al.		
14h00-14h20	A. Khastan, Linear dynamical equations with uncertainty on time Scales		
14h20-14h40	Z. Alijani, A Chebyshev based numerical methods for solving fractional fuzzy differential equations		
14h40-15h00	S.S.A. Yazdi, Full Fuzzy function Approximation by using Radial Basis Function interpolation		
15h00-15h20	B. Takhedmit, Uncertainty Quantification in M/G/1/N Queue with Dependent Breakdowns		
15h20-15h40	S. Rathinasamy, UDE-based robust tracking control for uncertain dynamical systems		
15h40-16h10	Coffee Break & Poster Session 1		
Secon	d Contributed Talks (SS: 2 & 4) 16h10 - 17h50 Chairs: A. Khastan et al.		
16h10-16h30	M. Panchenko, Fuzzy inference methods for flexible neuro-fuzzy systems		
16h30-16h50	0-16h50 E. Can, Numerical Solution for a Fuzzy Fractional Population Growth		
16h50-17h10	50-17h10 F. Cheurfa, P-boxes for uncertainty analysis of classic risk model		
17h10-17h30	0-17h30 S. Ouazine, P-box Uncertainty Quantification of Queues Using the Taylor Series Expansion		
17h30-17h50	L. Berdjoudj, Stochastic Analysis of M/G/1/1 retrial queue with impatient customers in the orbit		
	18:00 Welcome party		

August 21, 2019			
	Hall A		
	Second Plenary Sessions 09h00 - 11h00 Chair: D. Baleanu		
09h00-09h40	J.C. Cortés, Computing the probability density function of non-stationary solutions for some significant random differential equations: Beyond means and variances		
09h40-10h20	S. Sitnik, Integral Transforms Composition Method (ITCM) in Transmutation Theory		
10h20-11h00 I. Perfilieva, Fuzzy Transforms Through the Prism of Galerkin Methods			
11h00-11h30	11h00-11h30 Coffee Break		
	Contributed Talks (SS: 5) 11h30 - 12h50 Chairs: I. Dassios & I.L. Popa		
11h30-11h50	I.L. Popa, Generalized Stability for Linear Time-Varying Discrete-time Systems		
11h50-12h10	D. Bukahnov, Detecting Malware Software using Articial Neural Network based on Adaptive Resonance Theory with a Hierarchical Structure of Memory		
12h10-12h30	F. Boulahia, Existence and uniqueness of asymptotically w-periodic solutions of recurrent neural networks with time-varying coefficients and mixed delays		
12h30-12h50	S. Dhama, Pseudo Almost Automorphic solution of a Leslie-Gower Predator Prey model on time scales		
12h50-14h20	Lunch		
Fourth	Contributed Talks (SS: 5) 14h20 - 15h40 Chairs: I. Dassios & I.L. Popa		
14h20-14h40	I. Dassios, Methods in system theory, differential equations & networks for mathematical modelling		
14h40-15h00	A. Jawad, Chirped bright Solitons of nonlinear Schrödinger models in optical fibers using Sech Scheme		
15h00-15h20	S. Zuev, Numerical path integration and probability modelling of chaotic systems		
15h20-15h40	V. Egorova, Multi-scale modelling for wildfire propagation: interplay between meso- and macro-scale factors		
15h40-16h00	6h00 P. Kabalyants, Application of discrete models of dynamic systems for remote detection of cyanotoxin sources on aquatories		
	Hall B		
	Third Contributed Talks 11h30 - 12h50 Chair: P. Surkov		
11h30-11h50	M. Al Khaleel, Nonlinear type contraction in \$G\$-metric spaces		
11h50-12h10	V. Makovetsky, The constructions of transmutations for hypergeometric differential operators of higher order		
12h10-12h30	S. Guenfoud, Evaluation of the Integrals of the Green's Function of the Lamb's Model Entering in the Contact Problems		
	A. Zvyagin, Solvability of fractional a-Voigt model with memory along the motion trajectories		

12h50-14h20	Lunch		
Fourth Contributed Talks 14h20 - 15h40 Chair: A. Soldatov			
14h20-14h40	A. Setukha, Numerical Simulation of Electromagnetic Scattering Using Boundary Hypersingular Integral Equations Method		
14h40-15h00	B. Tishchenko, Existence and Stability of the Solution of the Two Stationary Diffusion Equation System With Internal Transition Layer in a Medium with Discontinuous Characteristics		
15h00-15h20	L. Kovaleva, The Dirichlet problem on two-dimensional stratified sets		
15h20-15h40	O. Tarasova, On some estimates for discrete boundary value problems		
15h40-16h00	A. Meirmanov, Free boundary problems and homogenization on non-periodic structures		
	Hall C		
	Third Contributed Talks 11h30 - 12h50 Chair: Y. Virchenko		
11h30-11h50	K. Mecheri, Econometric modeling of Bejaia's citrus production from 1983 to 2018		
11h50-12h10	O. Chernova, Integral representation of solutions of an elliptic system		
12h10-12h30	V. Devi. The application of Lagrange's operational matrix method for two-dimensional		
12h30-12h50	F. Soleyman, On the finite orthogonality of q-classical polynomials		
12h50-14h20	Lunch		
	Fourth Contributed Talks 14h20 - 15h40 Chair: V. Vasilyev		
14h20-14h40	G. Alexander, Bessel family of operator functions		
14h40-15h00	D. Demskoi, On non-steady solutions of ideal fibre-reinforced fluids on the plane		
15h00-15h20			
15h20-15h40 M.F. Teodoro, Approximating the Solution of Some Advanced-Retarded Differenti Using a Technique Based on HAM			
15h40-16h00	V. Nikolaev, On a Condition for the Existence of Solutions to the Homogeneous Schwarz Problem		

August 21, 2019	
16h00-19h00	Social Program 1: Evening Bus Tour

August 22, 2019			
	Hall A		
	Third Plenary Sessions 09h00 - 11h00 Chair: J.C. Cortés		
09h00-09h40	A. Atangana, Fractional differentiation and integration above power law		
09h40-10h20	R. Hilfer, Local Equilibrium in Time		
10h20-11h00	H. Jafari, A numerical method for solving a type of variable order partial differential equations		
11h00-11h30	11h00-11h30 Coffee Break		
Fifth Contributed Talks 11h30 - 12h50 Chair: S.M. Sitnik			
11h30-11h50	M.V. Shamolin, Integrable Dissipative Dynamical Systems: Approach and Applications		
11h50-12h10	V. Orlov, On strong solutions of a fractional nonlinear viscoelastic model of Voigt type		
12h10-12h30	V. Kandu, On Nonlinear Vibrations of an Elastic Plate on a Fractional Viscoelastic Foundation		
12h30-12h50	S. Pisareva, Correct solvability of nonstationary problems in Stepanov spaces		
12h50-14h20	Lunch		
	Hall B		
	Fifth Contributed Talks 11h30 - 12h50 Chair: A. Meirmanov		
11h30-11h50	M.L. Thivagar, A Computational Technique of Nano Topological Model via Graphs		
11h50-12h10	M.D. Christober, On Nano Topological Model Induced by New Class of Generalized Closed sets		
12h10-12h30	2h10-12h30 A. Soldatov, Linear Conjugation Problem for Bi-Analytic Functions in the Weighted Holder Spaces		
12h30-12h50	N. Mahmudov, Ulam-Hyers stability for impulsive nonlinear time-delay systems		
12h50-14h20	Lunch		
Hall C			
	Fifth Contributed Talks 11h30 - 12h50 Chair: V. Polunin		

11h30-11h50	R. Bourguiba, Positve iterative solutions for nonlinear fractional differential equations	
11h50-12h10	Z. Hammouch, Mathematical modeling and analysis of some reaction-diffusion problems with	
111130-121110	nonsingular-kernel derivatives	
12h10-12h30	D. Batishchev, Methods for calculating the quality criteria of medical images	
12h30-12h50	A. Tiukhtina, Mathematical Problems of Atmospheric Electricity	
12h50-14h20	Lunch	

August 22, 2019	
15h00-21h00	Social Program 2: Excursion to Belgorod region and historical places

August 23, 2019		
Hall A		
	Contributed Talks (SS: 3) 09h00 - 10h40 Chairs: A. Debbouche & C. Pinto	
09h00-09h20	I. Talib, A generalized operational matrix: An application to fractional Differential Equations	
09h20-09h40	Z. Hussain, An optimized Stability model for Magnetohydrodynamic Fluid	
09h40-10h00		
10h00-10h20	M. Plekhanova, Strong solutions for a class of semilinear equations with lower fractional derivatives	
10h20-10h40	A. Avilovich, Degenerate fractional order differential equations in Banach spaces and applications	
10h40-11h20	Coffee Break & Poster Session 2	
Seventh	Contributed Talks (SS: 3) 11h20 – 12h40 Chairs: A. Debbouche & C. Pinto	
11h20-11h40	A. Debbouche, Mathematical model involving time-fractional partial differential equations	
11h40-12h00	A. Nagumanova, Linear Inverse Problems for a Class of Degenerate Fractional Differential Equations in Banach Spaces	
12h00-12h20	E. Guariglia, Fractional derivative of the Lerch zeta function and Banach algebras	
12h20-12h40	R.K. Maurya, Stable numerical scheme for two dimensional quasilinear fractional waves model	
12h40-14h00	Lunch	
Eighth (	Contributed Talks (SS: 3) 14h00 - 15h40 Chairs: A. Debbouche & C. Pinto	
14h00-14h20	R. Kalantari, A Stable and Convergent Non-Standard Finite Difference Method for Fractional Black-Scholes Model of Digital Put Option Pricing	
14h20-14h40	V. Kumar, Controllability Results for Fractional Damped Dynamical Equation with Non-instantaneous Impulses	
14h40-15h00	N. Belevtsov, The general solution of a fractional Bessel equation	
15h00-15h20	S. Al-Sharif, On Compact Fractional Semigroup of Bounded Linear Operators	
15h20-15h40	A. Nuseir, Exact solutions for generalized Benjamin-Bona-Mahony equation using direct methods	
15h40-16h10	Coffee Break	
Ninth C	Contributed Talks (SS: 3) 16h10 - 17h50 Chairs: A. Debbouche & C. Pinto	
16h10-16h30	C. Pinto, Autoimmune diabetes in HIV infected patients: insights from a mathematical model	
16h30-16h50	P. Surkov, On the Solution Tracking Problem with Incomplete Information for the System of Nonlinear Fractional Differential Equations	
16h50-17h10	R. Sibatov, Tempered fractional equation for electron transport in quantum wires with fractal disorder	
17h10-17h30	T. Abdeljawad, The discrete counterpart of fractional operators with generalized Mittag-Leffler kernels	
Hall B		
Sixth Contributed Talks 09h00 - 10h40 Chair: V. Vasilyev		
09h00-09h20	M. Chebbah, Simulation Improvements for efficient combination of two lower bound functions in univariate global optimization	
09h20-09h40	A. Ferrag, Approximate and complete controllability of stochastic systems with impulsive effects in infinite dimension	
09h40-10h00	R.A. Yahia, Quasi-boundary value method for a linear ill-posed parabolic problem	

10h00-10h20	10h00-10h20 Ali Akgül, A novel method for boundary layer ow of a Powell-Eyring non-Newtonian fluid			
10h20-10h40 M. Dilmi, Asymptotic analysis of viscoelastic problems with nonlinear dissipative terms				
10h40-11h20 Coffee Break & Poster Session 2				
441.20.441.40	Seventh Contributed Talks 16h10 – 17h50 Chair: S.M. Sitnik			
11h20-11h40	F. Leslous, Optimization of a Telecommunication Network			
11h40-12h00	S. Hamani, Impulsive fractional differential inclusions involving Liouville-Caputo-Hadamard fractional derivatives			
12h00-12h20	A. Sahari, Nucleation and growth of metallic ions onto surfaces: Mathematic view			
12h20-12h40	H. Benseridi, Study of an evolution problem in a thin domain with Fourier and Tresca boundary conditions			
12h40-14h00	Lunch			
	Eighth Contributed Talks 14h00 - 15h40 Chair: V. Fedorov			
14h00-14h20	M. Tilioua, Control of ferromagnetic structures at elevated temperature			
14h20-14h40	M.R.S. Ammi, Optimal control of a nonlocal thermistor problem with with nonlocal and nonsingular Mittag-Leffler kernel			
14h40-15h00	S. Himri, The encapsulation of some derivatives of Anilinonaphthalene sulfonate by β-Cyclodextrin: A DFT investigation			
15h00-15h20	S. Lamari, Efficient basis set for the bound states of the Kane Hamiltonian in the MOSFET device geometry			
15h20-15h40	N. Kribes, Surface roughness modeling by using Taguchi method on hard tuning			
15h40-16h10	Coffee Break			
N	linth Contributed Talks (SS: 1) 16h10 - 17h50 Chair: A. Meirmanov			
16h10-16h30	I. Touil, A primal-dual interior point algorithm for semidefinite programming based on a new barrier function			
16h30-16h50	W. Chikouche, The transmission problem for the Laplace operator on a domain with a cuspidal point			
16h50-17h10	S. Lounis, Second order differential inclusion governed by sweeping process in Hilbert spaces			
17h10-17h30	L. Menniche, A logarithmic barrier method for linear programming using a new minorant function			
	Hall C			
	Sixth Contributed Talks 14h00 - 15h40 Chair: Y. Virchenko			
09h00-09h20	S. Lingeshwaran, Analysis of solutions of p-Laplacian parabolic system with integrable data			
09h20-09h40	H. Boulares, Stability analysis for fractional differential equations in Weighted Sobolev spaces M. Dalah, Existence and Uniqueness of the Weak Solution for an Antiplane Contact Problem			
09h40-10h00	with Friction			
10h00-10h20	J.R. Wang, Controllability of Conformable Fractional Differential Systems			
10h20-10h40	F. Nouioua, Periodic Solutions for a Third-Order Nonlinear Delay Differential Equation with Variable Coefficients			
10h40-11h20	Coffee Break & Poster Session 2			
	Seventh Contributed Talks 16h10 – 17h50 Chair: A. Soldatov			
11h20-11h40	N. Touafek, On a higher-order nonautonomous rational difference equation with periodic coefficients			
11h40-12h00	N. Boussetila, An iterative regularization method for fractional inverse problems			
12h00-12h20	R. Boukoucha, Coexistence of algebraic and non-algebraic limit cycles of a family of polynomial differential systems			
12h20-12h40	I. Area, Some open problems on multivariate orthogonal polynomials on nonuniform lattices			
12h40-14h00	Lunch			
Eighth Contributed Talks 14h00 - 15h40 Chair: O. Chernova				
14h00-14h20	Ekaterina Kisileva, Mathematical model of learning system			
14h20-14h40				
14h40-15h00				
15h00-15h20				
15h20-15h40				
15h40-16h10	Coffee Break			
	Ninth Contributed Talks 14h00 - 15h40 Chair:			

16h10-16h30	/	
16h30-16h50		
16h50-17h10		
17h10-17h30		

August 23, 2019	
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19h00-23h00	Social Program 3: Conference dinner/Banquet
171100 231100	Social Frogram 5: conference annier/ banquet

August 24, 2019	
09h00-11h00	Scientific Meeting & Closing Ceremony BSU Big Conference Hall, 3rd Floor