Functional Differential Equations and Applications



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Conference on Functional Differential Equations and Applications - FDEA 2014

> 5th Israeli Czech Workshop on Functional Differential Equations

Conference Program



5th Israeli-Czech Workshop on Functional Differential Equations



10:00	R. Hakl
	Czech Academy of Science, Brno Branch, Brno, Czech Republic
	Existence and Properties of Semi-Bounded Global Solutions to the Functional Differential Equation with Volterras Type Operators on the Real Line
11:00	F. Minhos
11.00	University Evora, Evora, Portugal
	Localization Results and Extremal Solutions for Higher Order Functional BVPs
12:00	M. Tvrdy Academy of Science, Praha, Czech Republic (joint research with G. Monteiro and U. Hanung)
	Bounded convergence theorem for abstract Kurzweil-Stieltje integral
13:00 - 14:00	Lunch
14:00	I. Rachunkova Olomouc University, Czech Republic
	Nonlinear differential systems with general linear boundary conditions and impulses
15:00	S. Padhi India, Masra
	A. Domoshnitsky
16:00	Ariel University,Israel
	About nonlocal boundary value problems for functional differential equations
17:00	K. Komoshvili and N. Puzanov Ariel University, Ariel Israel
	Solid-State Laser Stabilization by Feedback Control in Integral Form

18:00	R. Koplatadze
	Tbilisi State University, Tbilisi, Georgia
	The specific properties of solutions of first order differential and difference equations with several delay arguments
19:00	T. Tadumadze
	Tbilisi State University, Tbilisi, Georgia
	N. Gorgodze
	Kutaisi State University, Kutaisi, Georgia
	Sensitivity Analysis for Some Classes of Delay Functional Differential Equations

10:00	A. Rumyantsev Perm State University, Perm, Russia ITPS Group, Perm, Russia
	Constructive Approach to the Study of the Solvability of Linear Boundary Value Problems for Functional Differential Equations
11:00	Y. Goltser Ariel University, Ariel Israel
	Damped Oscillatory nonlinear Systems
12:00	I. Plaksina Perm state Technical University, Perm, Russia
	About Positivity of the Cauchy Function for a Singular Functional Differential Equation
13:00 - 14:00	Lunch
14:00	B.Brodsky Institute of Economics, Russian Academy of Sciences, Moscow, Russia
15:00	I. Volinsky (joint work with A. Domoshnitsky) Ariel University, Ariel Israel
	About Differential Inequalities for Nonlocal Boundary Value Problems with Impulsive Delay Equations
16:00	R. Shklyar Ariel University, Ariel Israel
	Positivity of fundamental matrix and stability of delay systems
17:00	S. Pati University of Masra, India

Conference

Program

9:00 - 9:45	Registration
10:00 - 10:40	Awerbuch-Friedlander T*, Levins R*, and Predescu M. ** *Harvard School of Public Health, Boston, MA 02445 USA **Bentley University, Waltham MA 0245 USA A system of Four Difference Equations for Exploring the Dynamics of Dengue Spread, and its Control (Preliminary Studies)
10:45 - 11:25	G. Röst University of Szeged, Szeged, Hungary Large time behavior of a linear delay differential equation with asymptotically small coefficient
11:30 - 12:10	X. Zou University of Western Ontario, Canada Dirichlet problem of delayed reaction-diffusion equations involving semi-infinite intervals
12:15 – 12:55	A. Novick-Cohen <i>Technion, Haifa, Israel</i> Surface diffusion and mean curvature: some theory and applications

9:30 - 10:10	A. Rumyantsev
	Perm State University, Perm, Russia ITPS Group, Perm, Russia
	Constructive Study of Linear Functional Differential Equations with Distributed Delay
10:15 - 10:55	V. Cherepennikov Melentiev Energy Systems Institute SB RAS, Russia
	Polynomial quasisolutions method for some linear differential difference equations of mixed type
11:00 - 11:40	I. Plaksina
	Perm National Research Polytechnic University, Perm, Russia
	About solvability of the Cauchy problem for a quasilinear singular functional differential equation
11:45 - 12:20	R. Koplatadze
	Tbilisi University, Georgia
	Comparison theorems for second order linear differential equations
12:25 - 13:00	R. Shklyar
	Technion, Haifa, Israel
	Stability and Estimate of Solution to Uncertain Neutral Delay
	Stability and Estimate of Solution to Uncertain Neutral Delay Systems
13:00 - 14:30	Lunch

14:30 - 15:10	R. Hakl
	<i>Czech Academy of Science, Brno Branch, Brno, Czech Republic,</i> Samuel Castillo (UBB, Chile)
	Existence of Global Solutions to the Linear Functional
	Differential Equations on the Real Half-Line
15:15 - 16:05	T. Shaposhnikova
15.15 - 10.05	1. Зпарозникоvа
	Moscow State University, Moscow, Russia
	Critical Parameters in Homogenization for Nonlinear Fluxes in
	Perforated Domains by Thin Tubes and Related Spectral
	Problems
16:10 - 16:55	T. Tadumadze
	Tbilisi State University, Department of Mathematics & I. Vekua
	Institute of Applied Mathematics, Tbilisi, Georgia,
	N.Gorgodze (Kutaisi State University, Department of Mathematics, Kutaisi, Georgia)
	Watternatics, Kutaisi, Georgia)
	Variation formulas of solution for a neutral functional differential
	equation taking into account delay function perturbation and the
	discontinuous initial condition
17:00 – 17:40	F. Minhos
	School of Sciences and Technology, University of Évora,
	Portugal
	Research Center in Mathematics and Applications of the
	University of Évora
	Multiplicity regults for higher order differential DVDs and integral
	Multiplicity results for higher order differential BVPs and integral equations
	cquarions
17:45 – 18:25	S. Padhi
	Masra, India
18:30 - 19:10	E. Shmerling
	Department of Computer Science and Mathematics,
	Ariel University Center of Samaria, Israel
	System of difference equations for defining the moments of
	Markov order m geometric order k random variables

9:30 - 10:10	L. Berezansky
	Ben Gurion University of the Negev, Beer-Sheva, Israel
	New Clobal Exponential Stability Criteria for Nonlinear Deley
	New Global Exponential Stability Criteria for Nonlinear Delay Differential Systems with Applications to BAM Neural Networks
10:15 - 10:55	Y. Goltser
10000	Department of Computer Science and Mathematics, Ariel
	University, Ariel, Israel
	On stability of some oscillating system of integro-differential
	equations
11:00 - 11:40	V. Tkachenko
	Institute of Mathematics National Academy of Sciences of
	Ukraine, Kiev, Ukraine
	Almost periodic solutions of impulsive evolution equations
	Almost periodic solutions of impulsive evolution equations
11:45 - 12:20	A.Domoshnitsky and A.Maghakyan
	Ariel University, Israel
	About noncosillation and stability of second order delay
	About nonoscillation and stability of second order delay differential equations
12:20 - 13:00	E.Fridman
	Tel-Aviv University, Israel
	Lyapunov-Based Methods for Stability and Control of
	Time-Delay Systems
13:00 - 14:30	Lunch
14:30 - 15:10	G. Derfel
14.50 15.10	Ben Gurion University of the Negev, Beer-Sheva, Israel
	Probabilistic methods for a class of equations rescaling

15:15 – 15:55	 F. Assous Ariel University, Department of Mathematics and Computer Science, Ariel, Israel I. Raichik (Bar Ilan University, Ramat Gan, Israel) A Numerical Method to Solve Maxwell.s Equations in Singular Domains with Arbitrary Data
16:00 – 16:40	 N. Cherniavskaya Ben Gurion University of the Negev, Beer-Sheva, Israel and L.Shuster (Bar Ilan University, Ramat Gan, Israel) On the speed of which solutions of the Sturm-Liouville equation tend to zero
16:45 -17:30	 I. Volinsky (joint work with S. Labovskiy) Ariel University, Ariel, Israel On Positivity of Green Functions for a Functional-Differential Equation
17:35 – 18:15	D. Gamliel Department of Physics, Ariel University, Israel Generalized 3-Site Cyclic Exchange
18:20 - 19:00	K. Komoshvili and N. Puzanov Ariel University, Ariel Israel Exponential Stabilization of Unstable Fix Point in an Electrochemical System by Feedback Control in Integral Form
19:05 - 19:45	 S. Labovskiy Moscow State University of Economics, Statistics and Informatics, Moscow, Russia On existence of a positive solution of an homogeneous linear functional differential equation

9:30 - 10:10	G. Agranovich
	Department of Electrical and Electronics Engineering, Faculty of
	Engineering, Ariel University, Ariel, Israel
	and I. Halperin
	(Department of Electrical and Electronics Engineering, Faculty of
	Engineering, Ariel University, Ariel, Israel)
	Ontineal Control with Dilingon Inconstitute Constraints
	Optimal Control with Bilinear Inequality Constraints
10:15 - 10:55	Y. Krasnov
	Bar Ilan University, Ramat Gan, Israel
	Differential equations in Algebras
11:00 - 11:40	A. Rasin
	Ariel University, Ariel, Israel
	The Bäcklund transformations for the Camassa-Holm equation.
11:45 - 12:25	G. Kresin
11.45 - 12.25	Ariel University, Israel
	Criteria for Invariance of Convex Bodies for Linear Parabolic
	Systems
12:30 - 13:00	S. Pati
	Masra, India
13:00 - 14:30	Lunch
14:30 - 15:10	M. Tvrdy
	Czech Academy of Science, Praha, Czech Republic
	(joint research with G. Infante and M. Zima)
	Gont research with G. Infante and W. Zinia)
	A Topological Approach to Periodic Oscillations Related to the
	Liebau Phenomenon

15:15 - 15:55	I. Rachunkova
	Olomouc University, Czech Republic
	State-Dependent and Fixed-Time Impulsive BVP
16:00 - 16:40	B. Brodsky
	Central Economics and Mathematics Institute, Russian Academy
	of Sciences, Moscow, Russia
	Dynamical Economic Models: Existence and Stability of
	Equilibria
	Equilibria
16.45 17.05	S. Bunimovich
16:45 - 17:25	
	Ariel University, Ariel, Israel
	Modeling and simulation of urinary bladder carcinoma
17:30 - 18:10	V. Plaksina
	Perm National Research Polytechnic University, Perm, Russia
	About Functional Di¤erential Equation with Delay on the Real
	Axis
	74415
18:15 - 18:55	G. Landsman, Sh.Yanets
18.13 - 18.33	
	Bar Ilan University, Israel
	About Sign-Constancy of Green's Functions for Impulsive Second
	Order Delay Equations