Analysis & Control of Deterministic and Stochastic Differential Equations

"Octav Mayer" Institute of Mathematics

September, 28-30, 2023

Aula Filialei din Iaşi a Academiei Române

Program

Thursday, September, 28

Chairperson:	Viorel Barbu	
9:00 – 9:45	Lucian Beznea	Path continuity of Markov processes and locality of Kolmogorov operators
9:45 – 10:30	Aurel Răşcanu	L^p-variational, $p \geq 1$, solutions of BSDEs driven by a subdifferential operator
10:30 – 11:00	Coffee break	
Chairperson:	Cătălin Lefter	
11:00 – 11:45	Petru Jebelean	Dirichlet systems with relativistic : operator differences vs differential
11:45 – 12:30	Valeriu Guţu	On attractors of a type of iterated systems with condensation

---

12:30 – 15:00 **Lunch**

Chairperson:	Gabriela Marinoschi	
15:00 – 15:45	Cătălin Popa	Exact controllability of the three-dimensional magnetohydrodynamic equations with four or three scalar control functions
15:45 – 16:30	Sebastian Aniţa	Regional control of a prey-predator model
16:30 – 16:45	Coffee break	
16:45 – 17:30	Elisabetta Rocca	Direct and Inverse problems for a prostate cancer growth model
17:30 – 18:15	Pierluigi Colli	Analysis and optimal control for a Cahn–Hilliard–Oono system with control in the mass term

---

SATURDAY, SEPTEMBER, 30

CHAIRPERSON:	LUCIAN BEZNEA	
9:00 – 9:45	Michael Röckner	Nonlinear Fokker–Planck equations with fractional Laplacian and McKean-Vlasov SDEs with Lévy-noise
9:45 – 10:30	Étienne Pardoux	Recent results on epidemic models
10:30 – 10:45	COFFEE BREAK	
10:45 – 11:30	Iulian Cîmpean	Ergodicity of Markov semigroups and application to singular SDEs
11:30 – 12:15	Gabriel Turinici	Reinforcement learning in finance: portfolio allocation, value functions and policy gradients flows