

Conference program

Monday, May 30th, 2022

Monday Morning Session

Chairman: P. Krejčí

09:00 – 09:15	Opening ceremony	
09:15 – 10:15	D. Rachinskii	SIR model with transmission rate modeled by the non-ideal relay and the Preisach operator
10:15 – 10:45	E. Ipocoana	A model for assisted periodic breathing with degenerate permeability
10:45 – 11:15	Coffee break	
11:15 – 12:15	M. Brokate	Derivatives of hysteresis operators
12:30 – 13:30	Lunch break	

Monday Afternoon Session

Chairman: D. Rachinskii

13:30 – 14:30	D. Knees	Optimal control of rate-independent systems
14:30 – 15:00	M. Ruderman	Energy dissipation and hysteresis cycles in pre-sliding transients of kinetic friction
15:00 – 15:30	Coffee break	

Tuesday, May 31st, 2022

Tuesday Morning Session

Chairman: M. Brokate

09:00 – 09:30	P. Krejčí	Some remarks on viscous approximations of rate independent processes
09:30 – 10:00	Ch. Gavioli	A viscoelastoplastic porous medium problem with nonlinear interaction
10:00 – 10:30	G. A. Monteiro	Rate-dependent Prandtl-Ishlinskii operators and applications in hysteresis compensation
10:30 – 11:00	Coffee break	
11:00 – 12:00	K. Kuhnen	Advanced magnetic constitutive mappings in electromagnetic field simulations
12:30 – 13:30	Lunch break	

Tuesday Afternoon Session

Chairman: V. Recupero

13:30 – 14:30	D. Davino	Self-similarity and feedback in magnetostrictive devices: the force of modeling
14:30 – 15:00	O. Klein	On forward and inverse uncertainty quantification for a model for a magneto mechanical device involving a hysteresis operator
15:00 – 15:30	Coffee break	
15:30 – 16:30	<i>Poster Session</i>	
	C.S. Clemente	Modeling of magneto-electric composites devices
	V.P. Loschiavo	Experimental evidences of self-similarity in magnetostrictive materials
	D. Manfredo	Inelastic Constitutive Models in the Framework of Cosserat Rods
	J. Runczиковá	Numerical Simulation of Cyclic Loading of Granular Material

Wednesday, June 1st, 2022

Conference trip and conference dinner

08:45 – Departure to Dolní Vítkovice

13:30 – Lunch (at the hotel)

19:30 – Conference dinner

Thursday, June 2nd, 2022

Thursday Morning Session

Chairman: D. Davino

09:00 – 10:00	G. Colombo	On the optimal control of Moreau's sweeping process
10:00 – 10:30	P. Gidoni	Stabilization of periodic sweeping processes and asymptotic average velocity for a model of soft crawler
10:30 – 11:00	Coffee break	
11:00 – 12:00	V. Recupero	Some results on the play operator and sweeping processes
12:30 – 13:30	Lunch break	

Thursday Afternoon Session

Chairman: D. Knees

13:30 – 14:00	I. Gudoshnikov	Stability and finite-time stability of the sweeping processes
14:00 – 14:30	M. Minářová	Anisotropic viscoelastic body subjected to a pulsating load
14:30 – 15:00	D. Flynn	Modelling of preferential finger flow in layered soils with the Preisach operator
15:00 – 15:30	Coffee break	

Friday, June 3rd, 2022

Friday Morning Session

Chairman: G. Colombo

09:00 – 10:00	A. Amann	The Devil's Staircase in the Discrete Preisach Memory Model
10:00 – 10:30	A. Pimenov	Chromatic dispersion in delayed differential equations and localized structures
10:30 – 11:00	O. Atlasiuk	Linear boundary-value problems for ordinary differential systems with a parameter in Sobolev spaces
11:00 – 11:30	Coffee break	
12:30 – 13:30	Lunch break	