

Mon (06.11)		Abstracts: https://ictp.acad.ro/nanmat/nanmat-2023/		
		Zoom: https://us06web.zoom.us/j/84414653288?pwd=W1Ee7DbZ2Ce0d2fG9mV0zmzN1twEWL.1 Meeting ID: 844 1465 3288 Passcode: 437826		
Time (RO)	Speaker	Title	Section	Chair
14:50	Conference opening			
15:00	Adrian Constantin	Existence and stability results for stratospheric planetary flows	PDEs	
16:00	Radu Precup	Energy-localization in Navier-Stokes models	PDEs	
16:20	Maria Neuss-Radu	Effective models for nonlinear drift-diffusion of multiple species in porous media	PDEs	
16:40	Renata Bunoiu	Homogenization of a transmission problem with sign-changing coefficients and interfacial flux jump	PDEs	
17:00	Nicolae Cîndea	Modelization and numerical simulation of inertial migration of particles in 3D channels	PDEs, NumericsPDEs	
17:20	Mircea Sofonea	Convergence criteria, well-posedness concepts and numerical validation	NumericalAnalysis	
17:40	Traian Iliescu	Regularized reduced order models (Reg-ROMs) for turbulent flows	NumericsPDEs	
18:00	Break (free discussions)			
18:20	Adrian Sandu	Time integration methods for co-simulation	NumericsPDEs	
18:40	Sever Hîrstoagă	A first-order reduced model for multi-scale Newton-Lorentz equation	NumericsPDEs	
19:00	Radu Cîmpeanu	Active control of liquid film flows: beyond reduced-order models	NumericsPDEs	

Tues (07.11)				
Abstracts: https://ictp.acad.ro/nanmat/nanmat-2023/				
Zoom: https://us06web.zoom.us/j/81422295913?pwd=3NO3yqJF5j5H0GwYIZbvmDSoAnCIHj.1 Meeting ID: 814 2229 5913 Passcode: 782885				
Time (RO)	Speaker	Title	Section	Chair
15:00	Constantin Băcuță	New convergence results for convection-diffusion problems	NumericsPDEs, FEM	
15:20	Daniela Căpățînă	Conservative flux reconstruction and application to a posteriori error analysis for elliptic interface problems	NumericsPDEs FEM	
15:40	Cătălin Turc	High-order Nystrom/convolution-quadrature solution of time-domain scattering from closed and open Lipschitz bounc	NumericsPDEs	
16:00	Lori Badea	Multigrid method for regularized Moreau-Yosida variational inequalities of the second kind	NumericsPDEs	
16:20	Călin Gheorghiu	Spectral collocation methods for pseudo-parabolic problems. Numerical experiments.	NumericsPDEs	
16:40	Mihai Nechita	Unique continuation for the Helmholtz equation using conforming FEM and physics-informed neural networks	NumericsPDEs, InverseProblems	
17:00	Iulian Cîmpean	A probabilistic numerical approach to the inverse Cauchy problem	NumericsPDEs, InverseProblems	
17:20	Liviu Marin	Accelerated algorithms for the Cauchy problem in steady-state anisotropic heat conduction	NumericsPDEs, InverseProblems	
17:40	Daniel Lesnic	Determination of heat transfer coefficients	NumericsPDEs, InverseProblems	
18:00	Cătălin Lefter	Inverse source estimates for parabolic problems with boundary observations	InverseProblems	
18:20	Break (free discussions)			
18:40	Octavian Agratini	On a generalization of the Gauss-Weierstrass operators	ApproximationTheory	
19:00	Stelian Ion	On surface reconstruction from noisy data	ApproximationTheory	
19:20	Andra Malina	Combined Shepard operators applied in image reconstruction	ApproximationTheory	
19:40	Andrei Stan	Localization of Nash equilibria for systems with partial variational structure	PDEs	
20:00	Diana Otrocol	Ulam stability of a partial differential operator in Banach spaces	PDEs	
20:20	Alexandru Tămășan	Inversion of the Momenta Doppler transform in the plane	InverseProblems	

Time (RO)	Speaker	Title	Section	Chair
Wed (08.11)		Abstracts: https://ictp.acad.ro/nanmat/nanmat-2023/		
		Zoom: https://us06web.zoom.us/j/81720770773?pwd=tlr0Zl4vPnwbhiEn4laRAsoDPjZosp.1 Meeting ID: 817 2077 0773 Passcode: 282698		
15:00	Sorin Pop	Iterative schemes for nonlinear parabolic problems	NumericsPDEs, PorousMedia	
15:20	Jakob S. Stokke	L-scheme/Newton based solver for Richards' equation	NumericsPDEs, PorousMedia	
15:40	Nicolae Suciu	Space–time upscaling of reactive transport in porous media	NumericsPDEs, PorousMedia	
16:00	Mădălina Petcu	Numerical analysis of a model of two phase compressible fluid flow	NumericsPDEs	
16:20	Mioara Joldes	Validated numerics: some algorithms and applications	NumericalAnalysis	
16:40	Beniamin Bogoşel	Numerical shape optimization among convex sets	Optimization, PDEs	
17:00	Cornel Murea	Topological optimization using Hamiltonian parametrization	Optimization, PDEs	
17:20	Silviu Niculescu	Controlling delay systems. Some remarks on multiplicity-induced-dominancy (MID) and spectrum assign	Control	
17:40	Marius Tucsnak	TBA	Control, PDEs	
18:00	Break (free discussions)			Maria Neuss-Radu
18:20	Emil Cătinaş	The speed of the strict superlinear convergence	NumericalAnalysis, IterativeMethods	
18:40	Daniela Lupu	Efficiency of stochastic higher order methods	Optimization	
19:00	Mihai Anişescu	Exponential decay of sensitivity and domain decomposition with overlap for dynamic and other graph-in	Optimization	
19:20	Ionuţ Farcaş	A framework for quantifying uncertainty at scale and its application to large-scale turbulent transport sim	UncertaintyQuantification	
19:40	Ştefania Petra	Geometric multilevel optimization	Optimization, InverseProblems	
20:00	Noemi Petra	Exploiting low-dimensional structure in Bayesian inverse problems governed by ice sheet flow models	NumericsPDEs, InverseProblems	
20:20	Imre Boros	Can AI aid in solving stiff ODEs? Harnessing physics-informed neural networks	NumericsODEs	

Time (RO)	Speaker	Title	Section	Chair
Thurs (09.11)		Abstracts: https://ictp.acad.ro/nanmat/nanmat-2023/		
		Zoom: https://us06web.zoom.us/j/87989098666?pwd=9PhWyowGGb9bPsRBmtByjIMJ2awDas.1 Meeting ID: 879 8909 8666 Passcode: 880784		
15:00	Victorița Dolean-Maini	Two-level spectral preconditioners for indefinite or non-symmetric problems	NumericsPDEs	
15:20	Cătălin Trenchea	An energy stable, second-order time-stepping method for two phase flow in porous media	NumericsPDEs	
15:40	Adrian Muntean	Phase separation and morphology growth in interacting ternary mixtures under evaporation - Well-posednes	PDEs, NumericsPDEs	
16:00	Radu Bălan	Coorbit Representations of Homogeneous Metric Spaces	MachineLearning	
16:20	Dacian Dăescu	Improving the use of observational data in numerical weather prediction: significance, challenges, and recen	Optimization, DataAssimilation	
16:40	Oana Lang	Eulerian calibration for stochastic models. Part I	StochasticPDEs	
17:00	Oana Lang (Dan Crișan)	Eulerian calibration for stochastic models. Part II	StochasticPDEs	
17:20	Sorin Mitran	Numerical modeling of media with stochastic microstructure	StochasticPDEs	
17:40	Andrei Drăgănescu	Multilevel methods for optimal control of elliptic equations with stochastic coefficients discretized using stoch	StochasticPDEs	
18:00	Break (free discussions)			
18:20	Doru Popovici	Scalability study for planewave DFT solvers	HPC	
18:40	Silviu Filip	Adaptive bit-width quantization-aware training of DNNs	HPC, MachineLearning	
19:00	Gabriel Turinici	Reinforcement learning algorithms in finance	MachineLearning	
19:20	Darian Onchiș	Adaptive bias correction for class incremental learning	MachineLearning	
19:40	Maria Crăciun	On some methods of fitting models to observational data	Optimization, Statistics	
20:00	Conference closure			