Programme

"Mechanics, Differential Equations and Numerical Methods"

Friday, 30.08	Presentation
9:00 – 9:30	**G. Dincă -** Geometry of Sobolev Spaces with Variable Exponents and Duality Mappings
9:30 – 10:00	**L. Badea -** On the Convergence of Some Hybrid Multigrid Methods for Variational Inequalities
10:00 – 10:30	**V. Busuioc -** Asymptotic behavior for the alpha Navier-Stokes equations
10:30 – 11:00	**A. Carabineanu -** The Steady Compressible Flow of an Electroconducting Fluid Past a Thin Airfoil
11:00 – 11:30	*Coffee break*
11:30 – 12:00	**P. Mironescu** - Critical Variational Vector-Valued Problems
12:00 – 12:30	**R. Iagăr -** Rotationally Symmetric P-Harmonic Maps from D^2 to S^2: Steady States, Local Existence and Finite Time Blow-up
12:30 – 15:00	*Lunch*
15:00 – 15:30	**D. Polişevschi** - Homogenization of Fluid Flows Through Fractured Porous Media
15:30 – 16:00	**G. Paşa -** Some Problems in Oil Recovery and Hele-Shaw Displacements
16:00 – 16:30	**R. Stavre -** A two Fluids Interaction Problem with Jump Conditions
16:30 – 17:00	**B. Vernescu -** Flow through Permeable Membranes
17:00 – 17:30	*Coffee break*
17:30 – 18:00	**M. Cocou -** Implicit Evolution Inequalities, Fixed Point Methods and Applications to Contact Mechanics
18:00 – 18:30	**O. Simionescu -** Guided Waves in Strained/Polarized Media

Suturday, 31.08	Presentation
9:00 – 9:30	**C. Făciu -** A viscoplastic model with negative strain-rate sensitivity for the Portevin-Le Chatelier effect and relaxation oscillations for dynamical systems
9:30 – 10:00	**M. Petcu -** Analysis of a Modified Parareal Algorithm for Second-Order Ordinary Differential Equations
10:00 – 10:30	**A. Căpăţînă, C. Timofte -** Homogenization Results for Microcontact Elasticity Problems
10:30 – 11:00	**L. Marin -** Iterative Algorithms with Relaxation for the Cauchy Problem Associated with the Modified Helmholtz Equation
11:00 – 11:30	*Coffee break*
11:30 – 12:00	**S. Cleja-Ţigoiu** - Free Energy Imbalence Principle in Finite Elasto-Plastic Damaged Materials
12:00 – 12:30	**I.R. Ionescu -** Dynamic Visco-Plastic Crystals: an Eulerian Modeling
12:30 – 15:00	*Lunch*
15:00 – 15:30	**M. Sofonea –** Mixed Variational Problems with Applications in Mechanics
15:30 – 16:00	**G. Marinoschi -** Variational Principles for Nonlinear Diffusion Equations
16:00 – 16:30	**D. Iftimie -** Weak Vorticity Formulation for Incompressible Ideal Flows in Domains with Boundary
16:30 – 17:00	**C. Bereanu -** Dirichlet Problems with the Mean Curvature Operator in Minkowski Space
17:00 – 17:30	*Coffee break*
17:30 – 18:00	**S. Ion -** Mathematical Modelling of Metals Absorption by the Root System of Plants
18:00 – 18:30	**D. Stan -** The Fisher-KPP Equation with Nonlinear Fractional Diffusion

Sunday, 1.09	Presentation
9:00 – 9:30	**A. Cernea -** On a Class of Nonlinear Differential Inclusions
9:30 – 10:00	**D. Tiba -** Global Variations in Shape Optimization
10:00 – 10:30	**M. Tucsnak -** Control Problems for Some Systems Modeling Fluid-Structure Interactions
10:30 – 11:00	**A. Halanay -** Hopf Bifurcations in Models for Blood Cells' Evolution in Leukemia, Considering the Immune Response and Treatment
11:00 – 11:30	*Coffee break*
11:30 – 12:00	**I. Molnar** - Optimal Estimates for Liftings of Unimodular Maps
12:00 – 12:30	**D. Merluşcă -** A Duality-Type Method for the Obstacle Problem
12:30 – 15:00	*Lunch*