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. Polișevschi** - Homogenization of Fluid Flows Through Fractured Porous Media
15:30 – 16:00	**G. Pașa** - Some Problems in Oil Recovery and Hele-Shaw Displacements
16:00 – 16:30	**A. Căpățînă, C. Timofte** - Homogenization Results for Microcontact Elasticity Problems
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	**R. Stavre** - A two Fluids Interaction Problem with Jump Conditions
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-Țigoiu** - 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***