

SCIENTIFIC PROGRAMME

Friday, November 6

08:00 - 09:40 **Registration**

Plenary Session

Amphitheater M3¹

Chairman: Cătălin LEFTER (Iași, Romania)

09:40 - 10:00 **Opening Ceremony**

10:00 - 10:45 **Viorel BARBU** (Iași, Romania)

Stochastic Nonlinear Differential Equations; an Operatorial Approach

10:45 - 11:15 **Coffee-Break**

11:15 - 12:00 **Vitaly VOLPERT** (Villeurbanne, France)

Mathematical Modelling of Blood Coagulation

12:00 - 12:45 **Ioannis P. STAVROULAKIS** (Ioannina, Greece)

Oscillations of Delay and Difference Equations with Several Deviating Arguments

12:45 - 15:00 **Lunch**

Afternoon Session I

Amphitheater M3

Chairman: Velichka MILOUSHEVA (Sofia, Bulgaria)

15:00 - 15:20 **Graham HALL** (Aberdeen, Scotland, UK)

Classification of the Weyl Tensor in 4-Dimensions and Neutral Signature

15:20 - 15:40 **Wendy GOEMANS** (Leuven, Belgium)

Some new Properties of Clelia Curves

15:40 - 16:00 **Cornelia-Livia BEJAN** (Iași, Romania)

Harmonicity on Semi-Riemannian Manifolds

16:00 - 16:20 **Josef MIKEŠ** (Olomouc, Czech Republic)

On Existence pre-Semigeodesic Coordinates

16:20 - 16:40 **Coffee-Break**

Chairman: Barbara OPOZDA (Kraków, Poland)

16:40 - 17:00 **Srdjan VUKMIROVIĆ** (Belgrade, Republic of Serbia)

Left-Invariant Metrics on Heisenberg Lie Group

¹ Faculty of Mechanics, Technical University, D. Mangeron Blvd., no. 43

17:00 - 17:20 **Anca-Maria NICA** (Iași, Romania)
Quadratic Residuosity Based Cryptography

17:20 - 17:40 **Simona NISTOR** (Iași, Romania)
Properties of Biconservative Surfaces

Afternoon Session II

Amphitheater M4¹

Chairman: **Gabriel DIMITRIU** (Iași, Romania)

15:00 - 15:20 **Eugen VĂRVĂRUCĂ** (Iași, Romania)
A Global Bifurcation of Steady Gravity Water Waves with Critical Layers

15:20 - 15:40 **Adrian ZĂLINESCU** (Iași, Romania)
A Boundary Control Problem for a Stochastic PDE with Nonlinear Dynamical Boundary Conditions

15:40 - 16:00 **Rodica LUCA TUDORACHE** (Iași, Romania)
On Positive Solutions for a Multi-Point Discrete Boundary Value Problem

16:00 - 16:20 **Alexandru LAZARI** (Chișinău, Republic of Moldova)
Determining the Main Probabilistic Characteristics for the Duration of the Stationary Games Defined on Stochastic Systems with Final Sequence of States and Independent Transitions

16:20 - 16:40 **Coffee-Break**

Chairman: **Rodica LUCA TUDORACHE** (Iași, Romania)

16:40 - 17:00 **Gabriel DIMITRIU** (Iași, Romania)
Evolutionary Dynamics in Cancer Cell Populations and Optimal Control of Targeted Chemotherapy Delivery

17:00 - 17:20 **Anca CROITORU** (Iași, Romania)
Some Results About Weak Linear Spaces

17:20 - 17:40 **Paul GEORGESCU** (Iași, Romania)
Threshold Boundedness Conditions for n -species Models of Mutualism

17:40 - 18:00 **Elena-Andreea FLOREA** (Iași, Romania)
Coderivative Necessary Optimality Conditions for Two Efficiency Notions in Vector Optimization with Variable Ordering Structure

18:00 - 18:20 **Omar BENNICHE** (Khemis Miliana, Algeria)
Invariance Results for Fully Nonlinear Differential Inclusions

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Saturday, November 7

Plenary Session

Amphitheater M3

Chairman: Tran Quoc BINH (Debrecen, Hungary)

09:00 - 09:45 Laurent DESVILLETES (Cachan, France)
Entropic Structure of Cross Diffusion Equations

09:45 - 10:30 Irena RACHŮNKOVÁ (Olomouc, Czech Republic)
Existence and Construction of Solutions of BVPs with State-Dependent Impulses

10:30 - 11:00 **Coffee-Break**

Chairman: Laurent DESVILLETES (Cachan, France)

11:00 - 11:45 Tran Quoc BINH (Debrecen, Hungary)
Some Remarks on a Minkowski Space (\mathbb{R}^n, F)

11:45 - 12:30 Barbara OPOZDA (Kraków, Poland)
Sectional Curvature of Statistical Structures

12:30 - 15:00 **Lunch**

Afternoon Session I

Amphitheater M3

Chairman: Cornelia-Livia BEJAN (Iași, Romania)

15:00 - 15:20 Zoltán MUZSNAY (Debrecen, Hungary)
Invariant Metrizability and Projective Metrizability on Lie Groups and Homogeneous Spaces

15:20 - 15:40 Cristian IDA (Brașov, Romania)
An Almost Contact Structure of the Vertical Liouville Distribution on the Big-Tangent Manifold

15:40 - 16:00 Velichka MILOUSHEVA (Sofia, Bulgaria)
Marginally Trapped Surfaces with Pointwise 1-type Gauss Map

16:00 - 16:20 Cristina Elena HREȚCANU (Suceava, Romania)
Properties of Submanifolds in Product Metallic Riemannian Manifolds

16:20 - 16:40 **Coffee-Break**

16:40 - 17:00 Hamou Mohammed DIDA (Saïda, Algeria)
Curvature Properties of The Vertical Rescaled Sasaki Metric

17:00 - 17:20 Marijana BABIĆ (Belgrade, Republic of Serbia)
Visualization of Hyperbolic Space by Central Projection onto a Horosphere

Afternoon Session II

Amphitheater M4

- Chairman:** Ioannis P. STAVROULAKIS (Ioannina, Greece)
- 15:00 - 15:20** **Narcisa APREUTESEI** (Iași, Romania)
Continuous Dependence on Data for the Solutions of Some Differential and Difference Equations
- 15:20 - 15:40** **Adrian SANDOVICI** (Iași, Romania)
On Spectral Theory of Linear Relations in Complex Banach Spaces
- 15:40 - 16:00** **Galina RUSU** (Chișinău, Republic of Moldova)
Singular Limit of Solutions to the Cauchy Problem for Abstract Second Order Differential Equations with two Small Parameters and Depending on Time Operators
- 16:00 - 16:20** **Marcelina MOCANU** (Bacău, Romania)
Obstacle Problems with Nonstandard Growth Conditions on Metric Measure Spaces
- 16:20 - 16:40** **Coffee-Break**
- 16:40 - 17:00** **Gabriela APREUTESEI** (Iași, Romania)
Semi-Linearity of some Spaces of Multifunctions
- 17:00 - 17:20** **Ivan SECRIERU** (Chișinău, Republic of Moldova)
The Decomposition Principle Applied to Approximate the Plane Fractional Diffusion Equation
- 17:20 - 19:00** **Break**
- 19:00 - 22:00** **Conference Dinner**

Sunday, November 8

Plenary Session

Amphitheater M3

- Chairman:** Narcisa APREUTESEI (Iași, Romania)
- 10:00 - 10:45** **Georgi GANCHEV** (Sofia, Bulgaria)
Classes of Special Surfaces in Euclidean or Minkowski Spaces and their Background PDE's
- 10:45 - 11:15** **Coffee-Break**
- 11:15 - 12:00** **Milan TVRDÝ** (Prague, Czech Republic)
Kurzweil-Stieltjes Integral and its Applications to Generalized Differential Equations
- 12:00 - 12:45** **Dan TIBA** (Bucharest, Romania)
General Implicit Systems: Constructive Approach, Generalized Solutions and Perturbations
- 13:00 - 15:00** **Lunch**

Afternoon Session I

Amphitheater M3

- Chairman:** Marcel ROMAN (Iași, Romania)
- 15:00 - 15:20 Marcel ROMAN (Iași, Romania)
On a Class of Almost Paracontact Structures on T^2M
- 15:20 - 15:40 Simona Luiza DRUȚĂ ROMANIUC (Iași, Romania)
The Projective and H-Projective Curvature of the Tangent Bundle
- 15:40 - 16:00 Ana NISTOR (Iași, Romania)
Magnetic Trajectories in Cosymplectic Manifolds
- 16:00 - 16:20 C. Deliu (Iași, Romania)
State Feedback Stabilization for Decentralized Control Systems with Multiple Eigenvalues in Zero and Input Saturation
- 16:20 - 16:40 **Coffee-Break**
- 16:40 - 17:00 Alina LAZU (Iași, Romania)
Generalized Solutions of Semilinear Evolution Inclusions
- 17:00 - 17:20 Lucian MATICIUC (Iași, Romania)
A Multivalued Cădlăg Reflected Problem

Afternoon Session II

Amphitheater M4

- Chairman:** Marius DUREA (Iași, Romania)
- 15:00 - 15:20 Anca CROITORU (Iași, Romania)
Considerations on Birkhoff set-valued integrability
- 15:20 - 15:40 Marius DUREA (Iași, Romania)
Penalization and Metric Regularity in Vector Optimization
- 15:40 - 16:00 Radu STRUGARIU (Iași, Romania)
Composition Set-Valued Mappings: Metric Subregularity and Fixed Points
- 16:00 - 16:20 Marian Dumitru PANȚIRUC (Iași, Romania)
Minimal time function with respect to a set of directions
- 16:20 - 16:40 **Coffee-Break**
- 16:40 - 17:00 Monica-Dana BURLICĂ (Iași, Romania)
Existence and Stability for a Class of Nonlinear Reaction-Diffusion Systems with Delay
- 17:00 - 17:20 Daniela ROȘU (Iași, Romania)
An Existence Result for a Nonlinear Multi-Valued Delay System with Nonlocal Initial Conditions

CLOSURE