

SCIENTIFIC PROGRAMME

Thursday, November 2

08:00 - 10:00 **Registration**

Opening Ceremony

“Gheorghe Asachi” Aula¹

10:00 - 11:00 **Opening Ceremony**

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

Plenary Session

Amphitheater P6¹

Chairman: **Răzvan LIȚCANU** (Iași, Romania)

11:30 - 12:15 **Viorel BARBU** (Iași, Romania)
Nonlinear Fokker--Planck equations

12:15 - 13:00 **Izu VAISMAN** (Haifa, Israel)
Generalized Kähler geometry: related structures and submanifolds

13:00 - 14:00 **Lunch**

Afternoon Session I

Amphitheater P6

Chairman: **Rafael LÓPEZ** (Granada, Spain)

14:00 - 14:20 **Cezar ONICIUC** (Iași, Romania)
CMC biharmonic surfaces in spheres

14:20 - 14:40 **Dorel FETCU** (Iași, Romania)
On constant mean curvature biharmonic surfaces

14:40 - 15:00 **Simona BARNA (NISTOR)** (Iași, Romania)
On biconservative surfaces in space forms

15:00 - 15:20 **Salvatore DE CANDIA** (Bari, Italy)
Some new results on slant immersions into an almost contact metric manifold

15:20 - 16:00 **Coffee-Break**

¹ Faculty of Electronics, Telecommunications and Information Technology, Technical University, Carol I Blvd., no. 11

Chairman: Dorel FETCU (Iași, Romania)

16:00 - 16:20 Marian MUNTEANU (Iași, Romania)

Contact CR submanifolds in S^7

16:20 - 16:40 Camelia FRIGIOIU (Galați, Romania)

Scalar-Weyl structures in generalized Lagrange geometries and compatible connection

16:40 - 17:00 Adela-Gabriela MIHAI (Bucharest, Romania)

Curves in a Myller Configuration

17:00 - 17:20 Cristina HREȚCANU (Suceava, Romania)

Bi-slant submanifolds in metallic Riemannian manifolds

Afternoon Session II

Amphitheater P2¹

Chairman: Cătălin GALEȘ (Iași, Romania)

14:00 - 14:20 Adrian ZĂLINESCU (Iași, Romania)

BSDEs with time--delayed generators in the study of path--dependent nonlinear Kolmogorov equations

14:20 - 14:40 Lucian MATICIUC (Iași, Romania)

Multivalued backward stochastic differential equations of anticipated type

14:40 - 15:00 Eduard ROTENSTEIN (Iași, Romania)

Obstacle problems for parabolic SDEs with Hölder continuous diffusion: from weak to strong solutions

15:00 - 15:20 Elena-Andreea FLOREA (Iași, Romania)

Applications of some higher-order derivatives to generalized optimization problems

15:20 - 16:00 **Coffee-Break**

Chairman: Adrian ZĂLINESCU (Iași, Romania)

16:00 - 16:20 Paul GEORGESCU (Iași, Romania)

A crossover: dynamics of mutualistic interactions in terms of reproductive ratios

16:20 - 16:40 Cătălin GALEȘ (Iași, Romania)

Effects of gravitational resonances in the space debris problem

16:40 - 17:00 Elena-Alexandra MELNIG (Iași, Romania)

Reaction-diffusion systems. Controlability. Stabilization. Inverse problems

17:40 - 18:00 Carmen Oana TĂRNICERIU (Iași, Romania)

Connections between mathematical formalizations of noise in neural dynamics

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Friday, November 3

Plenary Session

Amphitheater P6

Chairman: Ioan BUCĂȚARU (Iași, Romania)

9:00 - 9:45 Jun-ichi INOBUCHI (Tsukuba, Japan)
Grassmann geometry of surfaces in 3-dimensional homogeneous spaces

9:45 - 10:30 Sorin Vasile SABĂU (Sapporo, Japan)
Remarks on the geometry of complete non-compact Finsler manifolds

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

Chairman: Mihai ANASTASIEI (Iași, Romania)

11:00 - 11:45 Rafael LÓPEZ (Granada, Spain)
Construction of new minimal surfaces in Euclidean space

11:45 - 14:00 **Lunch**

Afternoon Session I

Amphitheater P6

Chairman: Sorin Vasile SABĂU (Sapporo, Japan)

14:00 - 14:20 Mihai ANASTASIEI (Iași, Romania)
Finsler-type connections in generalized Lagrange spaces

14:20 - 14:40 Ioan BUCĂȚARU (Iași, Romania)
Dissipative Lagrangian systems. Helmholtz conditions and formal integrability

14:40 - 15:00 Oana Antoaneta CONSTANTINESCU (Iași, Romania)
Alternative Lagrangians obtained by scalar deformations

15:00 - 15:20 Georgeta CREȚU (Iași, Romania)
A characterisation for Finsler spaces of constant flag curvature and how Beltrami theorem could work in Finsler geometry

15:20 - 16:00 **Coffee-Break**

Chairman: Mirjana DJORIĆ (Belgrade, Serbia)

16:00 - 16:20 Cihan OZGUR (Balıkesir, Turkey)
On metallic shaped hypersurfaces

16:20 - 16:40 Handan YILDIRIM (Istanbul, Turkey)
Timelike slant geometry on spacelike submanifolds of codimension two

16:40 - 17:00 Annamária SZASZ-FRIEDL (Brașov, Romania)
Second order deformation of complex Finsler metrics

17:00 - 17:20 Alexandru IONESCU (Brașov, Romania)
A Bochner technique on holomorphic Lie algebroids

Afternoon Session II

Amphitheater P2

Chairman: Alexandru LAZARI (Chişinău, Republic of Moldova)

14:00 - 14:20 Liviu FLORESCU (Iaşi, Romania)
Compactness in Sobolev spaces

14:20 - 14:40 Marcelina MOCANU (Bacău, Romania)
Applications of generalized Poincaré inequalities on metric measure spaces

14:40 - 15:00 Bianca-Renata SATCO (Suceava, Romania)
On g -differential equations and Stieltjes integral

15:00 - 15:20 Galina SPRÎNCEAN (Chişinău, Republic of Moldova)
A comparison of some numerical methods for semiconductor device problem

15:20 - 16:00 **Coffee-Break**

Chairman: Liviu FLORESCU (Iaşi, Romania)

16:00 - 16:20 Alexandru LAZARI (Chişinău, Republic of Moldova)
Algorithmic complexity of stochastic matrix decompositions

16:20 - 16:40 Alexandru CĂRĂUŞU (Iaşi, Romania)
Monotone and convex functions of matrices and operators, Jensen type inequalities with operators on Hilbert spaces

16:40 - 17:00 Adrian SANDOVICI (Iaşi, Romania)
The square root of nonnegative linear relations

17:00 - 17:20 Gabriela LIŢCANU (Iaşi, Romania)
About the immune system dynamics

Saturday, November 4

Plenary Session

Amphitheater P6

Chairman: Adrian SANDOVICI (Iaşi, Romania)

10:00 - 10:45 Constantin ZĂLINESCU (Iaşi, Romania)
Series of convex functions with applications to Statistical Mechanics

10:45 - 11:30 Henk de SNOO (Groningen, Netherlands)
Sturm-Liouville operators and boundary triplets

11:30 - 13:00 **Lunch**

13:00 - 14:00 **Visit to the Palace of Culture**

14:00 - 17:00 **Excursion at Hermeziu Winery**

17:00 - 21:00 **Festive Dinner**

Sunday, November 5

Plenary Session

Amphitheater M3

Chairman: Marian MUNTEANU (Iași, Romania)

09:00 - 09:45 Mirjana DJORIĆ (Belgrade, Serbia)
Submanifolds of real codimension two in complex space forms

09:45 - 10:30 Joeri VAN DER VEKEN (Leuven, Belgium)
Lagrangian submanifolds of the homogeneous nearly Kähler $S^3 \times S^3$

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

Parallel Session I

Amphitheater P6

Chairman: Marcel ROMAN (Iași, Romania)

11:00 - 11:20 Gabriela APREUTESEI (Iași, Romania)
Consonant families of sets

11:20 - 11:40 Cornelia-Livia BEJAN (Iași, Romania)
Harmonicity of the cotangent bundle

11:40 - 12:00 Simona-Luiza DRUȚĂ-ROMANIUC (Iași, Romania)
 (a, ε) -structures of natural lift type on the tangent bundle

12:00 - 12:20 Sânziana CARAMAN (Iași, Romania)
Unexpected applications of Brouwer's fixed point theorem

Parallel Session II

Amphitheater P2

Chairman: Radu STRUGARIU (Iași, Romania)

11:00 - 11:20 Monica-Dana BURLICĂ (Iași, Romania)
Existence for delay inclusions involving measures

11:20 - 11:40 Daniela ROȘU (Iași, Romania)
Single-valued perturbed delay systems with nonlocal initial data

11:40 - 12:00 Gabriela GROSU (Iași, Romania)
Integro-differential evolution equation with measures

12:00 - 12:20 Cătălin CALISTRU (Iași, Romania)
Stability of control structures using alternate feedback

CLOSURE