

MATHINFO CONFERENCE

7-8 September, 2023

Program Mathematics

September 07, Thursday

08:00-9:10 Breakfast & Registration

09:20-9:30 Opening (József Domokos & Csaba Farkas)

09:30-10:20 **Plenary Lecture** (Chair: Francesca Faraci)

Biagio Ricceri: *The latest applications of certain minimax theorems*

10:20-10:30 Discussion

10:30-10:50 Coffee Break

Session 1

Chair: Biagio Ricceri

10:50-11:10 **József Kolumbán:** *A Generalized Least Action Principle for Rayleigh-Taylor subsolutions*

11:15-11:35 **Maria Fărcașeanu:** *Solutions for nonlinear elliptic equations with singular potentials*

11:40-12:00 **Francesca Faraci:** *Some uniqueness results for strongly singular problems*

12:05-12:25 **Eduard Stefan Grigoriuc:** *Subclasses of univalent mappings in \mathbb{C}^n and the Graham-Kohr extension operator*

12:30-14:30 Lunch Break

14:30-15:20 **Plenary Lecture** (Chair: Alexandru Kristály)

Zoltán Muzsnay: *Tangent algebra of a diffeomorphism group and its application*

15:20-15:30 Discussion

15:30-15:50 Coffee Break

Session 2

Chair: Zoltán Muzsnay

15:50-16:10 **Alexandru Kristály:** *Clamped plates on curved spaces*

16:15-16:35 **Ioan Radu Peter:** *Hardy-Brezis-Marcus type inequalities in Minkowski spaces.*

16:40-17:00 **Ildikó Ilona Mezei:** *Nonsmooth elliptic problems on Riemannian manifolds*

17:05-17:25 **Csaba Farkas:** *Sharp spectral gaps and Hardy-Rellich inequalities via convexity-based techniques*

17:30-17:50 **Andra Malina:** *An application of Shepard operator in image reconstruction*

19:00-21:30 **Gala dinner:** tasting of Romanian wines with the invited sommelier **Tamás Bándi**

21:40- Serbia-Hungary football match (Room 114, main building)

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7-8 September, 2023

September 08, Friday

08:00-9:00 Breakfast

09:00-09:50 **Plenary Lecture** (Chair: Miklós Pintér)

Tibor Illés: *Sufficient linear complementarity problems: algorithms and computational results*

09:50-10:00 Discussion

10:00-10:20 Coffee Break

Session 3

Chair: Tibor Illés

10:20-10:40 **Miklós Pintér:** *Computing a Common Prior*

10:45-11:05 **Zsolt Darvay:** *New classes of search directions for symmetric cone horizontal linear complementarity problems*

11:10-11:30 **István Fazekas:** *A branching process based network evolution model describing N-interactions*

11:35-11:55 **Boróka Olteán Péter:** *Finding Nash-Stampacchia equilibrium points of Hirschleifer games using numerical algorithms*

12:15-14:30 Lunch Break

14:30-15:20 **Plenary Lecture** (Chair: Emil Horobet)

Ettore Teixeira Turatti: *Characteristic Polynomial of Tensors*

15:20-15:30 Discussion

15:30-15:50 Coffee Break

Session 4

Chair: Ettore Teixeira Turatti

15:50-16:10 **Emil Horobet:** *The spherical curvature of arbitrary algebraic varieties*

16:15-16:35 **Michael Suja:** *Limit theorems for runs containing two types of contaminations*

16:40-17:00 **László Pál:** *Numerical methods for parameter estimation of random coefficient demand systems*

17:05-17:25 **Róbert Szász:** *On Sendov's conjecture*