

**International Symposium on Differential Models in Geometry, Computer
Science and Hydrotechnics
DiMoGeCH - 22-25 May 2019 - Iasi, Romania**

Organizers:

- The Institute of Computer Science of the Romanian Academy - Iasi Branch,
- The Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, "Gheorghe Asachi" Technical University of Iasi
- Asociatia Absolventilor Facultatii de ETTI Iasi – ELECTRONIS

Conference Program

Wednesday 22 May

9 – 10: Registration & Photo

10 - 10.30: Opening Session

10.30 – 11: Coffee Break

Plenary Session (Romanian Academy Iasi Branch – Main Hall)

Chairman: T. Draghici

11 - 11.40: V. Barbu: *The evolution to equilibrium of solution to Fokker-Plank equations*

11.40 - 12.20: D. Blair: *Associated metrics for Bourgeois contact forms*

12:30 - 15 Lunch

15 - 15: 40: A. Derdzinski: *Geodesic holomorphic gradients*

Differential Geommetry Section

Chairman: B. Opozda

15:40 – 16: M. Robaszewska: *Backlund theorem concerning locally symmetric affine surfaces*

16 - 16.20: E. Kilic: *On CR-Submanifolds Admitting a Ricci Soliton*

Chairman: N. C. Turgay

16.20 – 16.40: N. Amri: *g-natural symmetries on unit tangent sphere bundles*

16.40 – 17: G. Cretu: *New Classes of Projectively Related Finsler Metrics of Constant Flag Curvature*

Applied Mathematics and Computer Science Section (Small Hall)

Chairman: S. I. Bejinariu

15 – 15:20: A. Ciobanu, T. Barbu, M. Luca: *Restoring Halftone Pattern Printed Pictures from Old Books*

15:20 – 15:40 A. Ciobanu, M. Luca, C. T. Teodorescu-Soare D. Luca: *Automatic Assessing of Titania Nanotube Arrays Morphology*

15:40 – 16: S. I. Bejinariu, H. Costin, F. Rotaru, R. Luca: *Improved Nature-Inspired Optimization Algorithms by Chaotic Maps usage*

16 – 16:20: I. Păvăloi, S. I. Bejinariu, Cristina Diana Niță, Luminița Camelia Lazăr: *Iris recognition using SIFT descriptors and color features*

16:20 – 16:40: V. Apopei: *About Prosodic Phrasing and Prominence in Speech*

18 Welcome Dinner (free for all speakers)

Thursday 23 May

9-10 *A tour of the National Theater in Iasi*

Plenary Session (Romanian Academy Iasi Branch – Main Hall)

Chairman: C. Udriste

10 - 10:20: G. Apreutesei: *Optimal treatment of hepatitis B virus*

10:20 - 10:40: V. Volpert: *Integro-differential equations in population dynamics*

10:40 - 11:10: *Coffee Break*

Chairman: D. Blair

11:10 - 11:50: T. Draghici: *On a question of Blair and Ianus recast to Einstein-Maxwell metrics*

11:50 - 12:30: H. Nozawa: *On holomorphic Lefschetz number of the Reeb flow of toric Sasakian manifolds*

12:30 – 15 *Lunch*

Differential Geommetry Section (Main Hall)

Chairman: L. Velimirovic

15 - 15:40: V. Rovenski: *Problems of Extrinsic Geometry of Foliations*

15.40 – 16: T. Q. Binh: *A note on extrinsic spheres of a Minkowski space (R^n, F)*

16-16:30: *Coffee Break*

Chairman: T. Q. Binh

16:30 - 16:50 C. Udriste: *The soul of Hungarian differential geometry - Lajos Tamassy*

16.50 – 17:10: R. Iordanescu: *To the memory of Professor Lajos Tamassy*

Chairman: S. Eken-Meric

17:10 – 17.30: Al. Carausu: *Academician Professor Constantin Corduneanu – In memoriam*

17.30 – 17: 50: S. Ionescu: *On some analitical definitions*

Applied Mathematics and Computer Science Section (Small Hall)

Chairman: G. Tanase

15 – 15:20: G. Tanase: *Multistep numerical methods via Chebyshev polynomials*

15.20 – 15.40: G. Constantin: *Characteristics of the algebraic problem-solving method*

15.40 – 16: C. Toader: *Some applications of mathematics in chemistry*

16:10 – 16.30: *Coffee Break*

16:30 – 16.50: H. N. Teodorescu: *Some properties of chirps based on essential discontinuities*

16.50 – 17.10: S. Anita, G. Dimitriu: *A regional control problem in epidemiology*

17.10 - 17.30: A. Croitoru: *On Birkhoff weak integral relative to a non-negative set function*

18:30 *Dinner (at the restaurant "La Castel")*

Friday 24 May

Plenary Session (Romanian Academy Iasi Branch – Main Hall)

Chairman: A. Derdzinski

10 - 10. 40: B. Opozda: *On completeness of statistical structures*

10.40 – 11: C. Ozgur: *Some Inequalities on Statistical Submanifolds in Sasaki-like Statistical Manifolds*

11 - 11.30: *Coffee Break*

Differential Geommetry Section (Main Hall)

Chairman: H. Nozawa

11.30 - 11.50: L. Velimirovic: *On knot energy of deformed knot*

11.50 - 12.10: N. C. Turgay: *On Biconservative Immersions into Semi-Riemannian Manifolds*

12.10 - 12.50: C. Oniciuc: *Biharmonic immersions in Euclidean spheres*

13 - 15 Lunch

Chairman: E. Kilic

15 - 15.20: C. Hretcanu: *Warped product submanifolds in Golden Riemannian manifolds*

15.20 - 15.40: S. Eken-Meric: *Some Characterizations of Riemannian Submersions from Ricci Solitons*

15.40 - 16.10 Coffee

Chairman: N. Amri

16.10 - 16.30: C. Sayar: *Generic Submersions from locally product Riemannian manifolds*

16.30 - 16.50: S. Berceanu: *About invariant metric on the extended Siegel-Jacobi upper half-plane*

Chairman: C. Ozgur

16.50 - 17.10: O. Kowalski: *Geometric measure theory and submanifolds*

17.10 - 17.30: S-L. Druta-Romaniuc: *Magnetic Frenet curves on para-Sasakian manifolds*

Chairman M. Robaszevska

17.30 - 17.50: S. Zamkovoy TBA

17.50 – 18.10: Y. Alexieva: TBA

18.10 – 18.30: U. Cankov: TBA

Closing Ceremony