

RIGA 2021 - Program

(all times in Romania time – UTC+2)

Friday, January 15, 2021

12:00 – 12:45 ONLINE REGISTRATION (connecting on the Microsoft Teams platform)

12:45 – 13:15 OPENING CEREMONY

Chairman: Ion Mihai

13:15 – 14:10 Invited talk

Leopold Verstraelen, *Happy geometry*

14:15 – 14:40 **Ildefonso Castro** - joint work with **Ildefonso Castro-Infantes** and **Jesus Castro-Infantes**, *Prescribing curvature to spherical helicoidal surfaces*

Chairman: Ghiocel Groza

14:45 – 15:10 **Rakesh Kumar**, *Rigging technique on null hypersurfaces of indefinite Kaehler manifolds*

15:15 – 15:35 **Hristo Manev**, *First natural connection on almost paracontact almost paracomplex Riemannian manifolds*

15:40 – 16:00 **Veselina Tavkova** - joint work with **Mancho Manev**, *Hyperspheres in Euclidean and Minkowski 4-spaces as almost paracontact almost paracomplex Riemannian manifolds*

Chairman: Mirjana Djoric

16:05 – 16:25 **Mukut Mani Tripathi**, *Wintgen inequality for Kulkarni curvature tensor satisfying algebraic Gauss equation and its applications*

16:30 – 16:50 **Tunahan Turhan** - joint work with **Gözde Özkan Tükel** and **Bayram Şahin**, *Riemannian submersions with differential geometry of certain curves*

16:55 – 17:15 **Gözde Özkan Tükel** – joint work with **Tunahan Turhan** and **Bayram Şahin**, *A characterization of Riemannian submanifolds by hyperelastic curves*

Chairman: Marian Ioan Munteanu

17:20 – 17:40 **Ágota Figula**, *Nilmanifolds and totally geodesic subalgebras of nilpotent metric Lie algebras*

17:45 – 18:05 **Ameer Al-Abayechi** – joint work with **Ágota Figula**, *On the structure of topological loops with solvable multiplication groups*

18:10 GROUP PHOTO by Microsoft Teams

18:15 – 19:05 Invited talk

Konrad Polthier, *Branched covering surfaces – new shapes, new materials and new processes*

Saturday, January 16, 2021

Chairman: Gabriel Eduard Vîlcu

9:00 – 9:50 Invited talk

Barbara Opozda, *Simon's type formulas in the geometry of statistical structures*

9:55 – 10:15 **Leila Samereh** - joint work with **Ion Mihai**, *Wintgen inequality for statistical surfaces in Hessian manifolds*

10:20 – 10:40 **Leila Nourmohammadifar** – joint work with **Esmail Peyghan**, *Statistical manifolds and tangent bundles*

Chairman: Uday Chand De

10:45 – 11:05 **Simona Decu-Marinescu**, *Curvature invariants for statistical submanifolds*

11:10 – 11:30 **Miroslava Antić** - joint work with **Haizhong Li**, **Luc Vrancken** and **Xianfeng Wang**, *A class of affine hypersurfaces with constant sectional curvature*

11:35 – 11:55 **Hülya Aytimur**, *Chen inequality for statistical submanifolds in statistical manifolds of constant curvature*

Chairman: Miroslava Antić

12:00 – 12:50 Invited talk

Luc Vrancken, *Applications of Tsinghua principle*

12:55 – 13:25 **Rafael López**, *Surfaces with constant curvature in Euclidean space: old problems and new results*

13:30 – 14:00 **Uday Chand De**, *Spacetimes with different forms of energy momentum tensor*

Chairman: Adela Mihai

14:05 – 14:25 **Meltem Ogrenmis** – joint work with **Mehmet Bektaş**, *Fractional invariants of curves in Euclidean spaces of higher dimension*

14:30 – 14:55 **Muhittin Evren Aydin** – joint work with **Ayla Erdur** and **Mahmut Ergüt**, *A new approach on singular minimal surfaces in 3-spaces*

15:00 – 15:50 Invited talk

Alfonso Carriazo – joint work with **Pablo Alegre** and **Joaquin Barrera**, *Slant submanifolds in generalized Sasakian space forms satisfying a natural equality*

Chairman: Muhittin Evren Aydin

15:55 – 16:15 **Juan de Dios Pérez** - joint work with **David Pérez-López**, *Covariant and Lie derivatives on real hypersurfaces in complex projective space*

16:20 – 16:40 **Şaban Güvenç**, *Trans-S-manifolds and their Legendre curves satisfying certain conditions*

16:45 – 17:05 **Cihan Özgür** – joint work with **Fatma Karaca**, *On some properties of quasi-Einstein sequential warped product manifolds*

Chairman: Rafael López

17:10 – 17:40 **Marian-Ioan Munteanu**, *When a vector field is a magnetic map?*

17:45 – 18:15 **Shihshu Walter Wei**, *Comparison principle, duality, and harmonicity-comparing diverse phenomena and discovering secret unity*

18:20 GROUP PHOTO by Microsoft Teams

18:25 – 19:15 Invited talk

Fănică Cimpoeșu - joint work with **Adela Mihai**, *Ideas for a new generation of problems in mathematical chemistry*

Sunday, January 17, 2021

Chairman: Rakesh Kumar

10:20 – 11:00 Invited talk

Sorin V. Sabău, *On the existence of convex functions on non-compact Finsler manifolds*

11:05 – 11:35 **Nicoleta Voicu** - joint work with **Manuel Hohmann** and **Christian Pfeifer**, *Cosmological Finsler spacetimes*

Chairman: Nicoleta Voicu

11:40 – 12:05 **Esmail Peyghan** – joint work with **Sami Chouaibi**, *Hom-symmetric spaces and Hom-Jordan Hom-symmetric spaces*

12:10 – 12:30 **Esa Sharahi**, *Finding geodesics on surfaces using Taylor expansion of exponential map*

12:35 – 12:55 **Rattanasak Hama** – joint work with **Sorin V. Sabău**, *On the geometry of a Randers cylinder*

Chairman: Adrian Burlacu

13:00 – 13:50 Invited talk

Veturia Chiroiu - joint work with **Ligia Munteanu** and **Polidor Bratu**, *Ricci soliton equation with applications to Zener schematics*

14:00 – 14:20 **Mancho Manev**, *Ricci-like solitons with arbitrary potential and gradient almost Ricci-like solitons on Sasaki-like almost contact B-metric manifolds*

14:25 – 14:45 **Andrejić Vladica**, *On Osserman and two-root manifolds*

Chairman: Cihan Özgür

14:50 – 15:10 **İnan Ünal**, *Generalized quasi-Einstein normal metric contact pairs*

15:15 – 15:35 **Miriana Djoric**, *Certain submanifolds of spheres*

15:40 – 16:00 **Gabriel-Florin Măcsim** - joint work with **Adela Mihai**, *Invariants on locally conformal Kaehler manifolds*

Chairman: Bayram Şahin

16:05 – 16:20 **Radu-Ioan Mihai**, *A geometric interpretation of some relations between integer sequences*

16:25 – 16:50 **Johan Gielis** – joint work with **Peijian Shi**, *Lamé curves in bamboo*

17:00 – 17:50 Invited talk

Bang-Yen Chen, *Harmonic metrics, harmonic tensors and identity maps*

18:00 GROUP PHOTO by Microsoft Teams and CLOSING CEREMONY