



**Technical University of Civil Engineering Bucharest
Faculty of Railways, Roads and Bridges
and
Department of Mathematics and Computer Science**



**University of Bucharest-150 years
Faculty of Mathematics and
Computer Science**

RIGA 2014

**Riemannian Geometry and Applications to
Engineering and Economics
Bucharest, Romania, May 19-21, 2014**

-Preliminary Program-

**Monday, 19 May 2014 –First Conference Day- Technical University of Civil Engineering Bucharest,
Faculty of Railways, Roads and Bridges, Lacul Tei Bvd. 122-124**

Registration 9:00-9:30

	Opening Ceremony		9:30-09:45
	Plenary talk: L. Verstraelen, Geometry of Submanifolds Chairman: I. Mihai	Room I.1	09:45-10:45
	Coffee Break 10:45-11:00		
	Chairman: L. Vrancken	Room I.1	Chairman: A. Olteanu
			Room I. 4
11:00-11:30	W.Wei, Recent progress in Riemann geometry, complex geometry and topology	11:00-11:30	C. Popescu, R.Sarghiuta, D.Gaftoi ,Sedimentation and morphology 3D mathematical modeling for Pitesti reservoir
11:30-12:00	R.-M.Danet, M.-V. Popescu, N. Popescu, Some equilibrium problems with convexity(-type) assumptions in the completely metrizable locally convex spaces setting vs the Riemannian manifolds setting	11:30-12:00	R. Sarghiuta, C. Popescu, Numerical analysis of the seepage phenomena at Gura Apelor Dam using a 3 D finite element model;
12:00-12:30	K. Matsumoto Submanifolds with the parallel T, Ω, B and C in a locally decomposable Riemannian manifold	12:00-12:30	A. Pasarescu, O.Pasarescu, Applications of Nonstandard Analysis in Mathematical Economics
12:30-13:00	W.Goemans ,On twisted surfaces	12:30-13:00	M.E. Aydin, M.Ergut, Geometric applications of homothetic production functions
	Lunch Break 13:00-15:00		
	Chairman: V.Balan	Room I.1	Chairman: M. Stoian
			Room I. 4
15:00-15:30	O. Garay, Equivariant Chen-Willmore surfaces in conformal homogeneous 3-spaces	15:00-15:30	M.E. Aydin, A.Mihai, On quasi-sum production functions
15:30-16:00	H.Yildirim, B.-Y.Chen, On ideal submanifolds of real space forms with type number ≤ 2;	15:30-16:00	C.V. Rosu, A. L.Bugea, D.Manoli, A.Andronic, M.-S. Serbulea, Parametric analysis using stochastic approaches in Abaqus
16:00-16:30	N.Anghel, Curvature bundle morphisms for hypersurface generalized Dirac operators;	16:00-16:30	M.S. Serbulea, A.Niculescu, D.Manoli, A. Priceputu, A.Andronic,C.V. Rosu, Sand liquefaction potential assessment by normalized skew surface state boundary

16:30-17:00	A.Constantinescu, TBA	16:30-17:00	D. Carfi, M.T. Calapso, TBA
Welcome Reception 19:30- Euro Hotels Arcul de Triumf			

Tuesday, 20 May 2014 –Second Conference Day- University of Bucharest, Faculty of Mathematics and Computer Science, Academiei Str. 14			
	Plenary talk: A. Carriazo; On slant submanifolds of semi-Riemannian manifolds Chairman: A. Mihai	S. Stoilow Hall, 1-st floor	9:30-10:30
Coffee Break 10:30-10:45			
	Chairman: K. Matsumoto S. Stoilow Hall		Chairman: A. Constantinescu Room 220
10:45-11:15	S. Eken, M.Gulbahar, E.Kilic, Some inequalities for Riemannian submersions	10:45-11:15	E.K. Stanislaw, On submanifolds in tangent bundle with g-natural metric
11:15-11:45	M.Munteanu, Riemannian submersions induced by affine actions on Lie groups	11:15-11:45	S.Druta-Romaniuc, Harmonicity on Walker manifolds
11:45-12:15	C.Ozgur, On some classes of slant curves in trans-Sasakian manifolds	11:45-12:15	C.L.Bejan , Kaluza-Klein spaces with almost para contact structures
12:15-12:45	R.Nakad, Spin ^c structures and isometric immersions of Riemannian manifolds	12:15-12:45	D.G.Prakasha, On 3-dimensional contact metric generalized (κ, μ) -space-forms
Lunch Break:13:00-15:00			
	Chairman: A. Carriazo S. Stoilow Hall		Chairman: N. Anghel Room 220
15:00-15:30	L. Vrancken, B. Dioos, H. Li, H. Ma, Flat almost complex surfaces in the nearly Kahler $S^3 \times S^3$	15:00-15:30	M.S.Stupariu, I.P.Stupariu, Discrete curvatures of triangular meshes that approximate smooth surfaces: the case of terrain data
15:30-16:00	S.Kiziltug, Curves of AW(k)-type in the equiform geometry of the pseudo-Galilean space	15:30-16:00	G. Groza, M. Jianu, Polynomial approximation of the solution of boundary value problems for ODEs which arise from engineering

Coffee Break 16:00-16:15

16:15-16:45	C. Ida, M. Crasmareanu, An 1-differentiable cohomology associated to a vector field	16:15-16:45	Y.S. Balkan, On a new type of almost contact metric manifolds
16:45-17:15	L.H. Odom, M.A. Riddle, B.D. Suceava, On absolutely umbilical hypersurfaces in the Euclidean ambient space	16:45-17:15	E.Kilic, M.Gulbahar, S. Keles, Some characterizations on screen locally conformal coisotropic light like submanifolds of a semi-Riemannian manifold of index 2
17:15-17:45	S.Decu, Optimal inequalities involving Casorati curvature of submanifolds in quaternionic space forms	17:15-17:45	G. Popescu, Non-commutative inequalities in operator algebra
17:45-18:15	V.Ghisoiu, New results for submanifolds of generalized complex space forms with a semi-symmetric metric connection	17:45-18:15	V. Petrehus, TBA

**Wednesday, 21 May 2014 –Third Conference Day- Technical University of Civil Engineering Bucharest,
Faculty of Railways, Roads and Bridges, Lacul Tei Bvd. 122-124**

	Chairman: B. Suceava	Room I. 1	
9:30-10:00	V. Balan, J.Stojanov, Statistical Finsler-Randers structures for the Garner cancer cell model		
10:00-10:30	G.Munteanu, N.Aldea, On product complex Cartan spaces		
Visit to the Geotechnical Laboratory of the Technical University of Civil Engineering Bucharest 10:30-11:00			
Coffee Break 11:00-11:30			
11:30-12:00	I.Mihai, On the normal scalar curvature conjecture		

12:00-12:30	R. Miron, TBA		
	Plenary talk: B.-Y. Chen, TBA Chairman: W. Wei	Room I.1	12:30-13:30
Closing Ceremony:13:30			
Visit to the Sport Museum:16:00			

List of posters

1. S. Costache, *Isometric immersions of S-manifolds in real space forms*
2. B. Heroiu (joint with A. Mihai), *Flat tensor product surfaces of pseudo-Euclidean curves*
3. V.I.R. Niculescu (joint with S. Miclos, D. Popescu, L. Sandru, S. Donciu), *The piecewise hopf link undulator model*
4. A. Olteanu, *Doubly warped product submanifolds in generalized complex space forms*
5. O. Postavaru, *TBA*
6. M. Sandu, *The role of reputation in the struggle between online versus offline commerce*
7. I.N. Radulescu (joint with A. Mihai), *On curvatures of special contact slant submanifolds in Sasakian space forms*
8. V. Zalutchi, *The geodesics and harmonic maps between two second order holomorphic jets bundle*
9. I. Presura, *On Chen first inequality for Legendrian submanifolds*