

The VIII-th International Conference of Differential Geometry and Dynamical Systems

(DGDS-2014)

1-4 September 2014, Callatis High School * Mangalia - Romania

Effective Conference program * [30.09.2014]

MONDAY, 1 September 2014 * First Conference Day

Registration * h. 9:00-14:00 * Registration desk: The Callatis High-School - Mangalia

MONDAY, 1 September 2014 (afternoon session)

	Location: Main Hall of the Callatis High School	14:20-15:00
	<i>Opening ceremony</i>	10'
	Romanian Geometry academic issues:	
	* Geometry landmarks at Al. I. Cuza University of Iassi, Mihai Anastasiei	10'
	* Geometry landmarks at University of Bucharest, Liviu Nicolescu	10'
	* Geometry landmarks at University Politehnica of Bucharest, Constantin Udriște	10'

COFFEE BREAK - 10'

MONDAY, 1 September 2014 (afternoon session)

	Chair: Eberhard Malkowsky	Section A	15:10-17:00
1.	Harmonicity of vector fields and one-forms on a (pseudo-)Riemannian manifold; Cornelia Livia Bejan		15' +5'
2.	On non-holonomic dynamics with linear and non-linear constraints; Paul Popescu and Cristian Ida		25' +5'
3.	On discrete geometry of non-holonomic spaces; Paul Popescu and Marcela Popescu		15' +5'
4.	A note on the existence of F-holomorphic connections; Cristian Ida, Paul Popescu		15' +5'
5.	Homothetical hypersurfaces in Euclidean spaces from the point of view of production theory in economics; Muhittin Evren Aydin and Mahmut Ergut		15' +5'
	Chair: Constantin Udriște and Adrian Constantinescu	Section B	15:10-16:40
1.	The time waves are born on a bed of standing waves; Constantin Udriște, Florin Munteanu, Dorel Zugrăvescu		25' +5'
2.	Informational origin of gravity; Constantin Udriște, Florin Munteanu, Dorel Zugrăvescu		25' +5'
3.	Genome of Descartes folium via normalization; Adrian Constantinescu, Constantin Udriște, Steluța Pricopie		25' +5'

Welcome party (banquet) * Hotel Saturn [19:30-22:00]

TUESDAY, 2 September 2014 (morning session)

	Chairman: Paul Popescu	8:00-10:20
1.	Twisted surfaces with null rotation axis; Wendy Goemans	25' +5'
2.	On MKdV equations related to simple Lie algebras; Vladimir Gerdjikov	25' +5'
3.	Hamilton-De Donder equations for harmonic maps; Olga Rossi and Jakub Dvorsky	15' +5'
4.	Dynamics of nonholonomic systems; Jana Musilová, Michal Čech	25' +5'
5.	How many are torsionless affine connections in general dimension; Zdenek Dusek, Oldrich Kowalski	25' +5'
<i>COFFEE BREAK - 20'</i>		
	Chairman: Cornelia Livia Bejan	10:40-13:10
6.	Local characterizations of surfaces in various spaces by induced metrics and principal distributions; Naoya Ando	25' +5'
7.	Geometry of pre-contrast functions; Hiroshi Matsuzoe	25' +5'
8.	Spherical multiergodic averages from Markkov action groups; Alejandro Meson and Fernando Vericat	25' +5'
9.	A characterization of homogeneous real hypersurfaces of types (C), (D) and (E) in a complex projective space; Sadahiro Maeda	25' +5'
10.	Some algebraic and C-Lie group structures on Descartes Folium; Adrian Constantinescu, Constantin Udriște, Steluța Pricopie	25' +5'
<i>General Assembly of the Balkan Society of Geometers</i>		20'

TUESDAY, 2 September 2014 (afternoon session)

	Chair: Sadahiro Maeda	Section A	16:00-17:20
1.	Geometrical methods for the study of mathematical models of the multi-species interactions; Florian Munteanu, Romulus Militaru		15' +5'
2.	Optimal control problems for stress tensor in perfect plastic plane medium; Simona Dinu, Andreea Bejenaru		15' +5'
3.	Shape optimization based on Riemannian optimal control techniques; Andreea Bejenaru, Constantin Udriște		15' +5'
4.	Properties of Σ -metallic Riemannian structures; Cristina Elena Hrețcanu, Mircea Crâșmăreanu		15' +5'
	Chair: Vladimir Gerjikov	Section B	16:00-17:40
1.	Some technical aspects of the study of sequences defined by linear recurrence relations; Vasile Arsinte		15' +5'
2.	Discrete multitime recurrences and their application in economics; Cristian Ghiu, Raluca Tuliga, Constantin Udriște, Ionel Țevy		15' +5'
3.	Bivariate diagonal Fibonacci numbers; Vasile Arsinte, Constantin Udriște		15' +5'
4.	Geometric modeling in Probability and Statistics; Ovidiu Călin, Constantin Udriște		15' +5'
5.	Isoperimetric constrained optimal control problems; Savin Treanță		15' +5'
<i>COFFEE BREAK - 10'</i>			
<i>Tartar party * Antik Restaurant - Neptun</i>			[18:00-21:30]

TUESDAY, 2 September 2014 (evening poster session) h. 16:30-17:50

1.	Efficiency for multitime vector variational problems on Riemannian manifolds involving geodesic invex functionals; Ștefan Mititelu, Constantin Udriște
2.	Duality for multitime vector fractional variational problems on manifolds via (ρ, b) -geodesic quasiinvexity; Vladimir Balan, Ștefan Mititelu
3.	Magnetic geometric dynamics around an infinite rectilinear wire; Adriana Calotă, Nona Crăciun
4.	Solitons of regularized long waves equation obtained by the method of expanding G'/G ; Andreea Novăcescu
5.	Dynamical systems. Applications; Dumitru Bălă
6.	A lower bound for a frame energy of a torus immersed in the hyperbolic space; Teodor Țurcanu

WEDNESDAY, 3 September 2014 * Excursion Day [on demand]

[*] The Castle *Queen Mary* excursion [9:00-21:00]

Alternatives: The Dalboca clams farm; Black Sea Cruise; Visit to the Danube Delta

THURSDAY, 4 September 2014 (morning session)

	Chair: Wendy Goemans		9:00-10:30
1.	Compactness in FK Spaces; Eberhard Malkowsky		25' +5'
2.	Observable, controllable and minimal realizations for 2D hybrid systems; Tiberiu Vasilache, Valeriu Prepelită, Mona Doroftei		25' +5'
3.	Line Graphics versus Polygon Mesh; Vesna Velickovic		25' +5'
<i>COFFEE BREAK - 30'</i>			
	Chair: Vesna Velickovic	Section A	11:00-12:30
1.	A mathematical model adapted to a P-swarm to detect malevolent action; Corina Cipu, Simona Bibic		15' +5'
2.	Multitime Schrodinger spatial solitons; Lavinia Petrescu		15' +5'
3.	Multi-time differential games; Otobîcu Elena-Laura		15' +5'
4.	Gromov hyperbolicity and Barbilian spaces; Wladimir-Georges Boskoff, Bogdan Suceavă		25' +5'
	Chairs: Adrian Constantinescu	Section B	11:00-12:40
1.	Comparing variants of single-time stochastic maximum principle; Constantin Udriște		15' +5'
2.	Adapted metrics for Newtonian gravity models; Gabriel-Teodor Pripoae		15' +5'
3.	On some Kahler-Riemann type flows; Iulia Elena Hircă		15' +5'
4.	Metric dimensional reduction at singularities with implications to Quantum Gravity; Ovidiu Cristinel Stoica		15' +5'
5.	Geometry of reliability models; Zahir Abdul Haddi Hassan, Vladimir Balan, Constantin Udriște		15' +5'
<i>COFFEE BREAK - 10'</i>			
Conference Closing Ceremony [12:50-13:00]			