

The International Conference "Differential Geometry and Dynamical Systems 2012"

29 August - 2 September 2012 * at Callatis High-School * Mangalia, Romania

(DGDS-2012) * SCIENTIFIC PROGRAM

Registration * Wednesday and Thursday (29-30 August 2012) * The Callatis High-School - Mangalia

Thursday, 30 August 2012 [AM]

OFFICIAL OPENING CEREMONY and ADDRESSES * 8:50-9:10

COFFEE BREAK

Chairmen: G. Ishikawa and S. Izumiya

9:30-11:30

1.	Differential geometry on spacelike submanifolds in de Sitter space and singularity theory, Masaki Kasedou	25' +5'
2.	Singularities of tangent surfaces in Cartan's split G_2 -geometry, Goo Ishikawa	25' +5'
3.	Total lightcone curvatures of spacelike submanifolds in Lorentz-Minkowski space, Shyuichi Izumiya	25' +5'
4.	On the geometry of bundle of accelerations, Ali Suri	25' +5'

Chairmen: V. Prepelită and P. Popescu

11:30-13:00

5.	On singular non-holonomic geometry, Paul Popescu, Marcela Popescu	25' +5'
6.	Algorithm for invariant subspaces and rD systems, Tiberiu Vasilache, Valeriu Prepelită, Mona Doroftei	25' +5'
7.	Laplacian on the complex Lie algebroid, Morteza Mirmohammad Rezaii, Zahra Pirbodaghi	25' +5'

Thursday, 30 August 2012 [PM]

Chairmen: A. Meson and B. Bidabad

**Section A
16:00-18:00**

1.	Convergence of the barycenter of measures from Fuchsian action groups, Alejandro Meson and Fernando Vericat	15' +5'
2.	Symmetries and conservation laws in higher order geometry, Florian Munteanu	15' +5'
3.	Weyl connections on manifolds endowed with certain structures, Cornelia Livia Bejan, Novac-Claudiu Chiriac	15' +5'
4.	Conformal transformation of scalar curvature Finsler manifolds, Behroz Bidabad	15' +5'
5.	On the submanifolds in the geometry of the homogeneous Finsler prolongation, Alexandru Oană	15' +5'
6.	Multi-time Kosambi-Cartan-Chern invariants, Mircea Neagu	15' +5'

Chairmen: L. Popescu and C.E. Hreţcanu

**Section B
16:00-18:00**

1.	Conformal mappings preserving the Einstein tensor of Weyl spaces, Merve Gurlek, Gulcin Civi	15' +5'
2.	Cyclic parallel CR submanifolds in a complex space form, Tee-How Loo	15' +5'
3.	On control affine systems, Liviu Popescu	15' +5'
4.	On some properties of metallic Riemannian manifolds, Cristina Elena Hreţcanu, Mircea Crăşmăreanu	15' +5'
5.	On a class of singular vector subbundles, Marcela Popescu, Paul Popescu	15' +5'
6.	On the stability of transverse locally conformally symplectic structures, Cristian Ida, Paul Popescu	15' +5'

FESTIVE DINNER * The restaurant "CUPIDON"

h: 19:00

Friday, 31 August 2012 [AM]

	Chairman: V. Balan	Section A 9:00-10:40
1.	Multitime optimal control with second order PDEs constraints, Constantin Udriște	15' +5'
2.	Optimal control problems on distributions, Constantin Udriște	15' +5'
3.	Multitime optimal control on Riemannian manifolds, Andreea Bejenaru, Constantin Udriște	15' +5'
4.	Controlled least squares approximations of Tzitzeica surfaces, Vasile Arsinte, Constantin Udriște	15' +5'
5.	Group law on the Folium of Descartes, Pricopie Steluța, Constantin Udriste	15' +5'
	Chairmen: V. Retchnoy and M. Pîrvan	Section B 9:00-10:40
1.	Integration in Lie calculus, Vitali Retchnoy	25' +5'
2.	Multitime prolongations of single-time PDEs, Laura Petrescu, Laura Matei, Monica Pîrvan	25' +5'
3.	Optimal control problems with higher order ODEs restrictions, Savin Treanță, Constantin Udriște	15' +5'
4.	Winds generated by flows and Riemannian metrics, Savin Treanță, Dreghici Veronica, Otobîcu Elena	15' +5'
	COFFEE BREAK	
	Chairman: M. Neagu	Section A 10:50-12:10
6.	Minimizing curvilinear integral functionals depending on curves, Ionel Tevy, Constantin Udriște	15' +5'
7.	Multi-time control strategies for skilled movements, Manuela Iliuță, Ionel Tevy, Constantin Udriște	15' +5'
8.	Sub-Riemannian geometry and optimal control for Lorenz-induced distributions, Vladimir Balan, Constantin Udriște, Ionel Tevy	15' +5'
9.	Implications of chaos theory in macroeconomics, Florin Munteanu, Constantin Udriște, Dorel Zugrăvescu	15' +5'
	Chairmen: Falleh Al-Solamy and M. Anastasiei	Section B 10:50-11:50
5.	Banach Lie algebroids and Dirac structures, Mihai Anastasiei	25' +5'
6.	On a statistically-derived Finslerian m -th root metric provided by the Garner biological model, Vladimir Balan, Jelena Stoianov	25' +5'
	General Assembly of BSG	Section A 12:20-12:30

Social Programme: excursion and wine tasting from Dobrogean wineries.

Saturday, 1 September 2012 [AM]

	Chairmen: C. Udriște and V. Arsinte	9:00-10:20
1.	On certain variational calculus problems, Ana-Maria Teleman	15' +5'
2.	Flows on Riemann surfaces, Constantin Udriște, Ionel Tevy, Romeo Bercia	15' +5'
3.	Multitime stochastic maximum principle with multiple integral cost, Constantin Udriște, Virgil Damian	15' +5'
4.	Minimal control energy in multitime controllability, Cristian Ghiu, Constantin Udriște	15' +5'
*	Harmonic maps on Hessian manifolds relative to alpha-connections, Keiko Uohashi	* POSTERS * 9:00-10:20
*	A geometrical overview of a mathematical model of malaria infection, Camelia Pop Arieșanu, Camelia Petrișor	
*	On a theorem by Elie Cartan, Liviu Nicolescu, Gabriel-Teodor Pripoae, Radu Gogu	
*	Eta-pseudolinearity on differentiable manifolds, Cristina-Liliana Pripoae, Gabriel-Teodor Pripoae, Vasile Preda	
*	Remarkable Finsler KCC hypersurfaces related to 2-dimensional phase transition phenomena, Vladimir Balan, Halina Grushevskaya, Nina Krylova, Alexandru Oană	
*	Several properties regarding the Lorentz group parameters and transitivity equations, E. Ovsyuk, O. Veko, M. Neagu, V. Balan, V. Redkov	
*	Grafts and compactness of complex algebraic varieties. Open problems, Adrian Constantinescu * <small>[contributed/re-programmed]</small>	
COFFEE BREAK		
	Chairmen: G. Bogoslovsky and E. Malkowsky	Section A 10:45-13:50
1.	Some new BK spaces and their dual spaces, Eberhard Malkowsky, Vesna Velickovic	25' +5'
2.	Hyperbolic fields: basic properties and perspectives of applications, Dmitry Pavlov	25' +5'
3.	Essentials of theory of functions over variables of polynumber type, Sergey Kokarev	25' +5'
4.	Preliminary investigations of hyperbolic fields, Viktor Panchelyuga, Marina Panchelyuga, Dmitry Pavlov, Sergey Kokarev	25' +5'
5.	Partially anisotropic Finslerian space-time and its modification arising from spatial and time inversions, George Bogoslovsky	20' +5'
6.	The inner geometry of indicatrix in the Berwald-Moor spacetime, George Bogoslovsky	20' +5'
7.	Vectors and jet prolongations of projectable planar-characteristic vector fields, Valentin Gabriel Cristea	15' +5'
Round table [RI-HSGP - Russian Federation]: <i>Multi-time Finsler Geometry</i>		13:50-14:30
DGDS-2012 Conference closing ceremony		Section A