

The International Conference of Differential Geometry and Dynamical Systems
(DGDS-2011)

6-9 October 2011, University Politehnica of Bucharest, Romania

Conference program * [9.10.2011]

Registration: THURSDAY, 6 October 2011 [AM] * h. 9:00-12:00 * Room R 412 (Rectorate building)

THURSDAY, 6 October 2011 [PM]

OFFICIAL OPENING CEREMONY and ADDRESSES * Senate Room

15:00-15:45

COFFEE BREAK (BN Hall)

Chairmen: S. Dimiev and M. Hristov

**Section A
Room BN 113, 16:00-17:50**

1.	Some lightlike submanifolds of almost complex manifolds with Norden metric, Galia Nakova	15' +5'
2.	A classification of the torsion tensors, Mancho Manev, Miroslava Ivanova	15' +5'
3.	On the Bézier type almost complex structures on quaternion Kähler manifold, Milen Hristov	15' +5'
4.	Multiplicative singularities on manifolds over commutative algebras, Stancho Dimiev, Peter Stoev	15' +5'
5.	On submanifolds in a real space form, Yoshio Matsuyama	25' +5'

Chairmen: C. Udriște and G.T. Pripoae

**Section B
Room BN 134, 16:40-18:00**

1.	Multitime optimal control on distributions, Constantin Udriște	15' +5'
2.	Geometric structures associated to second order dynamical differential systems, Virgil Obădeanu, Monica Ciobanu	15' +5'
3.	Geometric dynamics and winds, Constantin Udriște, Laura Otobăcu, Savin Treanță	15' +5'
4.	Multitime controllability functionals, Cristian Ghiu, Constantin Udriște	15' +5'
5.	Multitime solitons, Laura Matei, Constantin Udriște	15' +5'
6.	Multitime models in stochastic control, Virgil Damian, Constantin Udriște	15' +5'

COFFEE BREAK

Chairmen: B. Bidabad and L. Popescu

**Section A
Room BN 113, 18:20-19:50**

1.	A second order differential equation on compact Finsler spaces, Behroz Bidabad	25' +5'
2.	On the geometry of Poisson-Lie algebroids, Liviu Popescu	15' +5'
3.	Dynamical bifurcation of an eco-epidemiological system, Cristina Bercia	15' +5'
4.	The resolution of the structural harmonic sheaf, Vasile Arsinte	15' +5'
5.	Convex maps between Riemannian manifolds, Vasile Arsinte, Constantin Udriște	15' +5'

Chairmen: C. Târcolea and T.L. Costache

**Section B
Room BN 134, 18:20-19:50**

1.	Generalized convexity around degenerate minimum points, Cristina Liliana Pripoae, Gabriel Teodor Pripoae	25' +5'
2.	Some statistical scoring techniques, Constantin Târcolea, Adrian Stere Paris, Cristian Dragomirescu	15' +5'
3.	Equivalent projective representations on Hilbert C^* -modules and their multipliers, Tania-Luminița Costache	15' +5'
4.	A note on Morita equivalence of twisted crossed products, Tania-Luminița Costache, Mariana Zamfir	15' +5'
5.	A new point of view on Lagrangians, Livia Tanase	15' +5'

FRIDAY, October 7, 2011 [A.M.]

Chairmen: C.T.J. Dodson and N. Bokan		Room BN 113 9:00-11:00
1.	Some recent work in Frechet geometry, C.T.J. Dodson	25' +5'
2.	The graphical representation of neighbourhoods in topologies of FK spaces, Eberhard Malkowsky, Vesna Velickovic	25' +5'
3.	A role of geometry in the frame of competencies attainment, Neda Bokan, Tijana Sukilovic	25' +5'
4.	Multitime optimal control with metric compatibility evolution PDE, Andreea Bejenaru, Constantin Udriște	25' +5'
<i>COFFEE BREAK</i>		
Chairmen: V. Gerdjikov and A. Jimenez		Room BN 113 11:15-12:45
1.	Metrics of constant curvature with singularities, Jose Galvez, Asuncion Jimenez, Pablo Mira	25' +5'
2.	Geometric vector fields on spray and Finsler manifolds, Anna Toth	25' +5'
3.	On the soliton interactions and complete integrability of a class of vector nonlinear Schrodinger equations, Vladimir Gerdjikov	25' +5'
Lunch break [12:45-15:30]		

FRIDAY, October 7, 2011 [P.M.]

Chairmen: A. Toth and P. Popescu		Section I - BN 113 15:30-16:30
1.	On Pfaff systems, Paul Popescu	25' +5'
2.	Generalized subbundles of vector bundles, Marcela Popescu	25' +5'
<i>COFFEE BREAK</i>		
Chairmen: F. Klepp and I.E. Hirićă		Section I - BN 113 17:20-18:40
1.	On complex Douglas spaces, Nicoleta Aldea, Gheorghe Munteanu	15' +5'
2.	On some evolution equations in Riemannian Geometry, Iulia Elena Hirićă	15' +5'
3.	Mathematical model for a PID controller with applications in the small liquid flow rate control, Francisc Klepp	15' +5'
4.	About mathematical models in the stoichiometry, Francisc Klepp	15' +5'
Chairmen: M.M. Rezaii and V. Balan		Section II - BN 134 17:20-18:50
1.	Foliations on Cartan spaces, H. Attarchi, Morteza Mir Mohammad Rezaii	15' +5'
2.	On the seismic response of structures with semi-active base isolation, Ana Maria Mitu, Iuliana Popescu, Tudor Sireteanu	15' +5'
3.	Obstacle detection in robot vision using an improved optical flow algorithm, Ștefan Dumitru, Dan Bucur, Vladimir Balan	15' +5'
4.	Cartan and metric n -way spectra of m -th root Berwald-Moor Finsler structures, Vladimir Balan	25' +5'
Scientific Film: <i>Anisotropic World</i> (IRI-HSGP - Moscow)		BN 113 [19:00-21:00]

SATURDAY, October 8, 2011 [A.M.]

	Chairmen: S. Maeda and V. Prepelită	Room BN 113 * 9:00-11:00
1.	Stochastic analysis without probability: study of some basic tools, Remi Leandre	25' +5'
2.	Geometric approach to a class of multidimensional hybrid systems, Valeriu Prepelita, Tiberiu Vasilache, Mona Doroftei	25' +5'
3.	Characterizations of the horosphere in a complex hyperbolic space, Sadahiro Maeda	25' +5'
4.	On lifted foliation in the transverse vector bundle, Morteza Mir Mohammad Rezaii, Neda Shojaee	25' +5'

COFFEE BREAK

	Chairmen: R. Leandre and V. Chernov	Room BN 113 * 11:15-12:15
1.	Number systems on discrete lattices and digital signal processing problems, Vladimir Chernov	25' +5'
2.	Compactifications of the jet spaces of mappings, Piotr Mormul	25' +5'
	Lunch break [12:15-15:30]	

POSTERS – SATURDAY 8 October h. 15:30-17:20

1.	The Zermelo problem in Riemannian manifolds, Radomir Palacek, Olga Krupkova	Poster
2.	Elliptic variational inequalities in nonreflexive Banach spaces, Bouchra Aylaj, Jaafar Lahrache	Poster
3.	On a theorem of variational calculus with applications, Irina Meghea	Poster
4.	Financial dynamical systems and Lie groups, David Carfi	Poster
5.	<Reserved titles>, Mircea Orășanu, Horia Orășanu	Poster
6.	Methodology for 3D scene reconstruction from digital camera images, V. Patrangenaru, M. A. Crane, X. Liu, X. Descombes, G. Derado, W. Liu, V. Balan, V. P. Patrangenaru, H.W. Thompson.	Poster
7.	La décomposition cellulaire des surfaces compactes, Janina Mihaela Mihăilă	Poster
8.	Efficiency and duality for vector multitime control problems with curvilinear integrals and mixed constraints, Ștefan Mititelu, Mihai Postolache	Poster
9.	New results about some special Lotka-Volterra systems, Camelia Petrișor	Poster

SATURDAY, October 8, 2011 [P.M.]

	Chairmen: F. Ozdemir and O. Olteanu	Section I - BN 113 * 15:30-17:00
1.	The perpendicular bisector property in a linear normed space and some conjectures, Marius Rădulescu, Sorin Rădulescu, Gheorghita Zbăganu	25' +5'
2.	Applications of the Hahn-Banach principle to scalar and vector optimization, Octav Olteanu	25' +5'
3.	On space-like surfaces in Minkowski 4-space with pointwise 1-type Gauss map of the second kind, Ugur Dursun, Nurettin Cenk Turgay	25' +5'

COFFEE BREAK

	Chairmen: S. Baydas and A. Constantinescu	Section I - BN 113 * 17:20-18:40
1.	Deformation product on \mathbf{R}^n and Matlab applications, Bulent Karakas, Senay Baydas	15' +5'
2.	On D-recurrent spaces with semi-symmetric metric F-connection, Fatma Ozdemir	15' +5'
3.	Matlab applications of cone surfaces of 1-parameter motion, Senay Baydas, Bulent Karakas	15' +5'
4.	Topological properties of morphisms of schemes over a field and the descent of the algebraicity, Adrian Constantinescu	15' +5'

	Chairman: N.C. Turgay	Section II - BN 134 * 17:20-18:30
1.	On a new unified geometric description of gravity and electromagnetism, Nicoleta Voicu	25' +5'
2.	Deformation algebras on the jet prolongations of projectable vector fields, Valentin Gabriel Cristea	15' +5'
3.	Nonlinear-affine-quadratic regulator with magnetic evolution, Monica Pîrvan, Constantin Udriște	15' +5'

Conference closing ceremony [h.18:40 * BN 113] * Banquet * [19:00-22:30 * Hotel Yesterday]