

The International Conference of Differential Geometry and Dynamical Systems

(DGDS-2010)

25-28 August 2010, University Politehnica of Bucharest, Romania

Final effective conference programme  
(post-conference)

<i>Registration</i>		
WEDNESDAY, 25 August 2010 [AM] * h. 9:00-12:00 * Room R 412 (Rectorate building)		
WEDNESDAY, 25 August 2010 [PM]		
	<b>OFFICIAL OPENING CEREMONY and ADDRESSES</b> in honour of Prof.Dr. Constantin Udriște with the occasion of celebration the 70-th Anniversary <b>SENATE ROOM (UPB Rectorate Building, second floor)</b>	Wednesday 13:00-15:40
<i>COFFEE BREAK (BN Hall)</i>		
	<b>Chairman: C. Udriște</b>	<b>Section A</b> <b>Room BN 113, 16:00-17:30</b>
1.	Mathematical problems of homographic dynamics (book presentation), Eugen Grebenikov	15' +5'
2.	Hypersurfaces of hyperbolic space with 1-type Gauss map, Ugur Dursun	15' +5'
3.	Generalized convexity around critical points of extremum, Cristina Pripoe, Gabriel Teodor Pripoe	15' +5'
4.	Weak solutions for $p$ -Laplacian and for pseudo-Laplacian using surjectivity theorems, Irina Meghea	25' +5'
	<b>Chairmen: V. Prepelită and L. Popescu</b>	<b>Section B</b> <b>Room BN 134, 16:00-17:30</b>
1.	$\eta$ -Einstein tangent sphere bundles of natural diagonal lift type, Simona-Luiza Druță, Vasile Oproiu	15' +5'
2.	A physically motivated result in symplectic geometry, Ciprian Sorin Acatrinei	25' +5'
3.	On quarter symmetric metric connections on pseudo-Riemannian manifolds, I.E. Hiriță, L. Nicolescu	15' +5'
4.	Estimating the triangle determined by $n$ uniform random points, Ștefan Ștefănescu	15' +5'
<i>COFFEE BREAK</i>		
	<b>Chairmen: E. Grebenikov and U. Dursun</b>	<b>Section A</b> <b>Room BN 113, 18:00-19:10</b>
1.	Metric nonlinear connections on Lie algebroids, Liviu Popescu	25' +5'
2.	Riemannian convexity of functionals, Andreea Bejenaru	15' +5'
3.	Geometric dynamics on black holes, Dragoș Isvoranu, Virgil Damian	15' +5'
	<b>Festive Dinner (Welcome party offered by Prof.Dr. Constantin Udriște, BN020) [19:30-21:30]</b>	

**THURSDAY, August 26, 2010 [A.M.]**

	<b>Chairmen: A. Asada and D. Torres</b>	<b>Room BN 113 9:30-11:20</b>
1.	Hamilton-Jacobi Theory via Cartan Geometry, Roman Smirnov	40' +5'
2.	The equivalence problem for Killing tensors defined on the three-dimensional sphere, Caroline Cochran	25' +5'
3.	Fractional calculus of variations for double integrals, Tatiana Odziejewicz, Delfim F. M. Torres	25' +5'
<i>COFFEE BREAK</i>		
	<b>Chairman: R. Smirnov</b>	<b>Room BN 113 11:30-12:30</b>
1.	Lie algebra generated by logarithm of differentiation, Akira Asada	25' +5'
2.	Application of Lie groups of transformations for an approximate solution of <i>MHD</i> flows of visco-elastic second grade fluids", N. Islam, J. Lahiri, H. P. Mazumdar and B. Islam.	25' +5'
<b>Lunch break [12:30-15:00]      *** Visit to the Palace of the Parliament of Romania ***</b>		

**THURSDAY, August 26, 2010 [P.M.]**

	<b>Chairmen: Șt. Berceanu and M. Tosun</b>	<b>Section I - BN 113 15:00-16:00</b>
1.	On the geometry of the Siegel-Jacobi manifolds, Ștefan Berceanu, Alexandru Gheorghe	25' +5'
2.	Lagrangians and foliations, Marcela Popescu, Paul Popescu	25' +5'
	<b>Chairman: V. Arsinte and C. Cochran</b>	<b>Section II - BN 134 15:00-17:00</b>
1.	Minimal surfaces between two points, Constantin Udriște, Ionel Tevy, Vasile Arsinte	15' +5'
2.	Smallest area surface evolving with unit areal speed, Constantin Udriște, Ionel Tevy	15' +5'
3.	Multitime optimal control for linear PDEs with volume cost functional, Constantin Udriște	15' +5'
4.	Von Neumann analysis of discrete Tzitzeica PDE by second order Lagrangian dynamics, Constantin Udriște, Vasile Arsinte, Corina Cipu	15' +5'
5.	Performance indices with multiple magnetic evolutions, Constantin Udriște, Monica Pîrvan	15' +5'
6.	Dynamical systems in complex variable, Constantin Udriște, Romeo Bercia	15' +5'
<i>COFFEE BREAK</i>		
	<b>Chairman: P. Popescu</b>	<b>Section I - BN 113 17:20-18:40</b>
1.	Sectional curvature of semi-ruled surface in semi Euclidean space $\mathbf{R}^n$ , Murat Tosun, Soley Ersoy, Mahmut Akyigit	15' +5'
2.	Some characterizations of quaternionic rectifying curves, Mehmet Ali Gungor and Murat Tosun	15' +5'
3.	On timelike tubular Weingarten surfaces in Minkowski 3-space, Ayse Zeynep Azak, Melek Masal, Serpil Halici	15' +5'
4.	On the generalized Bertrand curve in 5-dimensional Lorentz spaces, Soley Ersoy and Abdullah Inalcik.	15' +5'
	<b>Chairmen: I. Tevy and R. Bercia</b>	<b>Section II - BN 134 17:20-18:20</b>
1.	Multi-dimensional solitons, Laura Gabriela Matei, Constantin Udriște	15' +5'
2.	The multi-time controllability matrix, Cristian Ghiu	15' +5'
3.	Les nouvelles technologies de l'information et de la communication versus l'enseignement traditionnel, Janina Mihaela Mihailă	15' +5'

**FRIDAY, August 27, 2010 [A.M.]**

	<b>Chairman: T.Q. Binh and C.L. Bejan</b>	<b>Room BN 113 9:00-10:50</b>
1.	The Geometry of double and triple numbers, Dmitry Pavlov, Sergey Kokarev	25' +5'
2.	The kinematic anisotropy of the background radiation in the space endowed with the Berwald-Moor metric, Dmitry Pavlov	25' +5'
3.	Geometrical structures associated to reonomous dynamical systems, Monica Ciobanu, Virgil Obădeanu	15' +5'
4.	Geometrical structures associated to second order differential dynamical systems, Virgil Obădeanu, Monica Ciobanu	20' +5'
<i>COFFEE BREAK</i>		
	<b>Chairmen: D. Pavlov and S. Kokarev</b>	<b>Room BN 113 11:00-13:00</b>
1.	Some notes on eta-Einstein manifolds, Cornelia Livia Bejan	25' +5'
2.	Some remarks on pseudo-Finslerian functions, Tran Quoc Binh	25' +5'
3.	On projectively related warped products of Finsler manifolds, Mohammad Morteza Rezaei and Y. Alipour-Fakhri	25' +5'
4.	Critical values and spectra related to $m$ -root Finsler structures, Vladimir Balan and Aleksandr Galmak	25' +5'
	<b>Lunch break [13:00-15:00]</b>	

**POSTERS – FRIDAY 27 August and SATURDAY 28 August h.9:00-11:00**

1.	On a theorem of Walkup-Wets, Jaafar Lahrache	Poster
2.	On the geometry of the generalized tangent bundle, Adara-Monica Blaga	Poster
3.	Some remarks about first order jets of bundles over foliated manifolds, Adelina Manea	Poster
4.	Lagrangians on jet bundles, Ariana Pitea	Poster
5.	About the solution of a battery model, Gabriel Girban, Anania Girban, Camelia Pop	Poster
6.	A geometrical approach of some dynamics arising from engineering, Camelia Pop, Anania Aron	Poster
7.	Geometrical aspects of the ball-plate problem, Camelia Pop, Anania Aron, Camelia Petrișor	Poster
8.	Stability analysis for a switched system issued from a hysteretic Bouc-Wen model, Iuliana Popescu, Andrei Halanay, Ana Maria Mitu	Poster
9.	A hybrid mathematical model for the oscillations of the Calcium concentration. Numerical simulations, Vladimir Balan, Ileana Rodica Nicola, Dumitru Opreș	Poster
10.	The 1-jet Generalized Lagrange Geometry induced by the rheonomic Chernov metric, Vladimir Balan, Mircea Neagu	Poster
11.	Optimality conditions for a family of curves, Oltin Dogaru, Mihai Postolache and Mădălina Constantinescu	Poster
12.	Classes of gradient Ricci solitons, Gabriel Bercu, Claudiu Corcodel, Mihai Postolache	Poster
13.	Some considerations about square matrices of order two, Livia Gina Tănase	
14.	Instability theorems and their applications, Horia Orășanu	Poster
15.	Theorems regarding certain integral transformations, Mircea Orășanu	Poster

**FRIDAY, August 27, 2010 [P.M.]**

	<b>Chairman: V. Ciano and V. Balan</b>	<b>Room BN 113 15:00-17:10</b>
1.	Subharmonic morphisms, Vasile Arsinte	15' +5'
2.	Harmonic resolutions, Vasile Arsinte	15' +5'
3.	A converse of Hilbert Nullstellensatz for algebraic varieties via subalgebras, Adrian Constantinescu	25' +5'
4.	Discriminant analysis and applied regression, Constantin Târcolea, Adrian Paris	25' +5'
5.	Box Jenkins methodology applied to the environmental monitoring data, Mihaela Camelia Ștefania Mihai, Irina Meghea	25' +5'
<i>COFFEE BREAK</i>		
	<b>Chairmen: A. Constantinescu and C. Tarcolea</b>	<b>Room BN 113 17:20-18:30</b>
1.	Relativistic elastic tensor, Vincenzo Ciano, Francesco Farsaci	20' +5'
2.	An approximate evaluation of the phenomenological and state coefficients for visco-anelastic media with memory, Armando Ciano	20' +5'
3.	Existence theorem for the hybrid competition model, Carlo Cattani, Armando Ciano	20' +5'
	<b>Banquet * [19:30-22:30]</b>	

**SATURDAY, August 28, 2010 [A.M.]**

	<b>Chairmen: Șt. Mititelu and O. Olteanu</b>	<b>Room BN 113 9:30-12:00</b>
1.	Bonnet problems via Cartan moving frames, Magdalena Daniela Toda, Eugenio Aulisa, Zeynep Kose	30' +5'
2.	Standard controllable realizations for $nD$ separable transfer matrices, Valeriu Prepelită, Tiberiu Vasilache, Mona Doroftei	30' +5'
3.	Efficiency and duality for multitime vector fractional variational problems with mixed constraints on Riemannian manifolds, Ștefan Mititelu, Mihai Postolache	40' +5'
4.	Applications of analysis to special PDE's and to functional equations, Octav Olteanu	30' +5'
	<b>Conference closing ceremony [h.12:10]</b>	<b>BN 113</b>