

Conference Programme
Differential Geometry-Dynamical Systems
(DGDS-2007)
(postconference data)

FRIDAY, October 5, 2007

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OFFICIAL OPENING CEREMONY – SENATE ROOM		Friday 13:30-14:00
Chairmen: C. Cattani, K.Tenenblat – SENATE ROOM		Section I+II 14:00-15:00
1.	A.Kouretsis, M.Stathakopoulos, P.C.Stavrinos	Osculating cosmological model of a Randers space 25'
2.	L. Schaefer	tt*-geometry and pluriharmonic maps 25'
Chairmen: C.Udriște – AN 034		Section I 15:00-16:30
1.	M.Iftime	Fundamental geometric structures and the search for a quantum theory of gravity 25'
2.	K. Tenenblat, R.Pina	On solutions of the Ricci tensor and Einstein equations 15'
3.	A. Arvanitoyeorgos	Invariant Einstein metrics on some homogeneous spaces of classical Lie groups 15'
4.	K.Kleidis, P.Nerantzi, D. Papadopoulos	The Kerr-NUT solution as a seed solution to electrified cosmic string 15'
COFFEE BREAK – R412		
Chairman: G.Hall – BN 134		Section II 15:00-16:30
1.	V.Obădeanu	Geometric structures associated to dynamical systems of deformable continuous media 25'
2.	F.S. de Blasi	Baire category and existence problems in Analysis and Geometry 15'
3.	I. Burdujan	Clifford-Kähler manifolds 15'
4.	A. Lupu, P.Stavre	On almost symplectic conjugations 15'
COFFEE BREAK – R412		
Chairmen: K.Tenenblat, I.Burdujan – AN 034		Section I 16:45-19:00
1.	V.Ciancio, A.Ciancio, F.Farsaci	Phenomenological approach to a model of viscoelastic media 25'
2.	1. D.Opriș, D.Torres, C.Udriște 2. D.Opriș, C.Udriște	1. Single-time dynamics with fractional action 2. Multi-time dynamics with fractional action 15' 10'
3.	1. C.Udriște, M.Ferrara 2. C.Udriște, M.Ferrara	1. ODE-constrained optimal neoclassical growth 2. Higher-dimensional black hole models in economics 15' 15'
4.	1. C. Udriște 2. C.Udriște, M. Ferrara, I. Tevy, O.Dogaru, A.Ciancio 3. M. T.Calapso, C.Udriște 4. C.Udriște, M. Ferrara, F. Munteanu, D.Zugrăvescu	1. Multi-time controllability and observability 2. Neoclassical growth geometric dynamics 3. Isothermic surfaces as solutions of Calapso PDE 4. Economics of Roegen-Ruppeiner-Weinhold type 15' 15' 15' 15'

	Chairmen: A. Papadopoulos, V.Obădeanu – BN 134		Friday Section II 16:45-19:00
1.	C. Cattani	Modelling nonlinear dynamical systems in wavelet spaces	15'
2.	1. L. Kocić, S. Gegovska-Zajkova and E. Babače 2. L. Kocić, L.Stefanovska, E. Babače	1. Approximations of dynamical systems by AIFS 2. AIFS and the minimal simplex problem	15' 15'
3.	A. Papadopoulos, M.Troyanov	Symmetrization in convex geometry and Hilbert manifolds	25'
4.	R. Horhat, M. Neamtu, D. Opris	P53-Mdm2 network. Mathematical models and simulation	15'
5.	I. Toma	Lem solutions for non-linear dynamical systems	25'
6.	V. Atanasiu	Optimal approximating function	15'
	FESTIVE DINNER – Rectorate 5-th FLOOR		19:30-22:00
POSTERS – R412			
1.	D.Smetanova and O.Krupkova	Hamiltonian systems in dimension 4	Poster
2.	O.T.Chiș, M.Puta	The dynamics of the Rabinovich system	Poster
3.	M.Popescu, P.Popescu, N.Dumitru	Non-Hamiltonian and non-Lagrangian systems as affine Legendrians	Poster
4.	D.Deac	The analysis of some fractional dynamic systems which describe economic proceses	Poster
SATURDAY, October 6, 2007			
	Chairmen: E.Grebenikov, F.S. de Blasi – AN 034		Saturday Section I 9:00-10:30
1.	E.A. Grebenikov, D.M. Diarova, N.I. Zemtsova	The new theoretical models in the dynamics of space	25'
2.	V. Dikusar	Boundary value problem in optimal control with general constraints	25'
	COFFEE BREAK – R412		
	Chairmen: A. Arvanitoyeorgos, J.Sadeghi – BN 134		Section II 9:00-10:30
1.	J. Sadeghi, A. R. Amani	Deformation of three coupled scalar fields	25'
2.	A. R. Amani and J. Sadeghi	Adomian decomposition method and two coupled scalar fields	15'
	COFFEE BREAK – R412		
	Chairmen: M.R. Pahlavani, Șt.Mititelu – AN 034		Section I 10:45-13:00
1.	M.R. Pahlavani	Non-relativistic bound states for the modified Woods-Saxon potential	15'
2.	J. Brajercik, D. Krupka	$GL_n(\mathbb{R})$ -invariant variational principles on frame bundles	15'
3.	Șt. Mititelu	Efficiency conditions for multiobjective fractional variational problems	15'
4.	C. Hrețcanu	Some properties of $(a,1)f$ structures	15'
	LUNCH BREAK – <i>Shorley Restaurant</i>		

	Chairmen: S.Lebedev, V.Prepeleț – BN 134		Saturday Section II 10:45-13:00
1.	I.E. Hirică, L. Nicolescu	On Weyl and Lyra manifolds	15'
2.	G-E. Vilcu	Normal semi-invariant submanifolds of paraquaternionic space forms and mixed 3-structures	15'
3.	M.I. Cîrnu	New numerical methods based on discrete deconvolution	15'
4.	O. Olteanu, A.Olteanu	Solving some functional and operatorial equations	15'
5.	V.Prepeleț	Adjoint multidimensional acausal systems	15'
	LUNCH BREAK – <i>Shorley Restaurant</i>		
	Chairmen: M.Ferrara, V.Iftode – AN 034		Section I 14:00-16:30
Nr.	Name	Title of the talk	P.M.
1.	M. Boleantu and D. Opris	Fractional dynamical systems defined on fractional jet bundle and applications in economics	15'
2.	N.Mastorakis, C.Udriște, O.Martin, R.Bercia	Finite difference method for Maxwell geometric dynamics	15'
3.	C.Udriște, A. Pitea	PDE-constrained optimization problems	15'
4.	C.Udriște, C.Ghiu	Magnetic dynamics around a fractal electric circuit	15'
5.	C. Udriște, V. Bădescu, V. Ciancio, D. Isvoranu, F. Ghionea, I. Tevy	Higher dimension Reissner-Nordström black hole geometric thermodynamics in a non-flat space	15'
6.	L.Matei, C.Udriște	Stability of first order PDEs systems	15'
7.	M.Ivan, Gh.Ivan, D.Opris	Some fractional Maxwell-Bloch equations on fractional algebroids	15'
	COFFEE BREAK – R412		
	Chairmen: G. Bogoslovsky, D. Papadopoulos – BN 134		Section II 14:00-16:30
1.	G.Bercu	Finsler structures associated to control systems	15'
2.	M. Neagu	Riemann-Lagrange geometrization for linear ODEs and superior order ODEs	15'
3.	G.Bogoslovsky	Some metrical relations for relativistically-invariant Finslerian event spaces	25'
4.	S. Lebedev	Spaces conformally related to the 3-dimensional Berwald Moor space	15'
5.	D. Pavlov	Polymetric geometry and the pseudo-Finsler spaces of P.K.Rashevsky	25'
	COFFEE BREAK – R412		
	Saturday, Sections I+II:	Movie: "Finsler Geometry and the Ancient Egypt" – AN034	16:45-19:30
SUNDAY, October 7, 2007			
	Chairmen: V.Ciancio, Gh.Ivan – AN 034		Sunday Section I 9:00-10:30
1.	G. Hall	Symmetries of the curvature, Weyl conformal and Weyl projective tensors in 4-dimensional Lorentz manifolds	25'
2.	Gh.Atanasiu, A.Oană	The Gauss-Weingarten formulae of second order	15'
3.	K.Trencevski and E.G.Celakoska	On the equations of motion in the Minkowskian space	15'
4.	V. Velickovic, E. Malkowsky	Algorithms for the solutions of visibility problems in Computer Graphics	25'
	COFFEE BREAK – R412		

	Chairman: V.Balan – BN 134		Sunday Section II 9:00-10:30
1.	N. Barbalace	Soft computing for viscoelastic media	15'
2.	A. Constantinescu	Schemes over a field with algebraic stratifications	15'
3.	G.T. Pripoe	Geodesic vector fields on Lie groups	15'
	COFFEE BREAK – R412		
	Chairman: K.Trencevski, G.Pripoe – AN 034		Section I 10:45-13:15
1.	I.D.Albu, M.Neamtu, D.Opriş	Equations of the rigid body with memory	15'
2.	A.Zlătescu, L. Lemnete-Ninulescu	Some aspects of the L -moment problem	15'
3.	1. J.Mihăilă 2. J.M.Mihăilă, O.Olteanu, C.Udrişte	1. Problèmes de type Markov et Sharafutdinov dans la théorie des moments 2. La construction de quelque fonction par des moments donnés	15' 15'
4.	O. Dogaru, C. Udrişte, C.Stamin	Lateral extrema and convexity	15'
5.	V.Catană	Lp-boundedness of two-wavelet localization operators associated to left regular representation	15'
6.	M. Pappalardo, F. Villecco	Max-Ent in fast belief fusion	15'
	Chairmen: P.C.Stavrinos, A.M.Teleman – BN 134		Section II 10:45-13:15
1.	A.M.Teleman, K.Teleman	The minimal Yang-Mills supersymmetric Lagrangian	25'
2.	I. Masca	Matsumoto spaces with reversible geodesics	15'
3.	V.Balan	New results in the theory of Busemann-Hausdorff Finsler CMC hypersurfaces	15'
4.	C.Udrişte, M.Pirvan	Magnetic dynamics around a tri-axial square Helmholtz coil	15'
5.	P.Popescu, M.Popescu, C.Udrişte	Generalized multi-time Lagrangians and Hamiltonians	15'
	OFFICIAL CLOSING CEREMONY – AN 034		13:15 -13:30