

Saturday, July 31, 2010**NSC10 PROGRAM**

8:30-9:30	Registration	Conference Hall				
9:30-10:15	Plenary Lecture 9 Conference Hall	DUMITRU BALEANU (TURKEY) <i>Fractional modelling and its applications</i> CHAIR: J.A. Tenreiro Machado				
10:15-11:00	Plenary Lecture 10 Conference Hall	V. I. SHRIRA (UK) <i>Inertial waves and deep ocean mixing</i> CHAIR: J.A. Tenreiro Machado				
11:00-11:30	Coffee Break					
11:30-12:15	Plenary Lecture 11 Conference Hall	J.A. TENREIRO MACHADO (PORTUGAL) <i>Application of fractional calculus in Engineering Sciences</i> CHAIR: L.A. Ostrovsky				
12:15-12:25	Break					
12:25-13:45	Parallel Session 35 Conference Hall	Parallel Session 36 Blue Hall	Parallel Session 36 AMFI 1	Parallel Session 37 AMFI 2	Parallel Session 38 AMFI3	Parallel Session 39 AMFI4
13:45-14:45	Lunch					
14:45-16:30	Parallel Session 40 Conference Hall	Parallel Session 41 Blue Hall	Parallel section 42 AMFI 1	Parallel Session 43 AMFI 2		
16:30-17:00	Coffee Break					
17:00-18:45	Parallel Session 44 Conference Hall	Parallel Session 45 Blue Hall	Parallel Session 46 AMFI 1			
18:45-19:15	Closing Ceremony	Conference Hall				
19:15-21:00	Farewell Buffet					

Saturday, July 31, 2010		Parallel Section 35		PLACE- Blue Hall	
12:25-13:45	Fractional Calculus Applications	Chair	Mehmet Önder	Co-chair	Celaleddin Yeroglu
12.25-12.45	Celaleddin Yeroglu ,Nusret Tan	<i>Relay Auto-tuning of PID for Fractional Order Nonlinear Systems</i>			
12.45-13.05	Mehmet Önder Efe	<i>PI^λD^μ Control via Neural Networks</i>			
13.05-13.25	Mehmet Önder Efe	<i>Backstepping Control Technique for Fractional Order Systems</i>			
13.25-13.45	Necati Özdemir, Derya Avcı	<i>Formulation of A Space-Time Fractional Anomalous Diffusion Problem in Two Dimensional Space</i>			

Saturday, July 31, 2010		Parallel Section 36		PLACE- AMFI 1	
12:25-13:45	Stochasticity in Applied Nonlinear Dynamics	Chair	Susana Pinheiro	Co-chair	Concepcion Muriel
12.25-12.45	Maleki-Jirsaraei, Nahid; Erfani, M.; Ghane-Golmohamadi, F. Ghane-Motlagh R., Rouhani, S.	<i>Saffman-Taylor Instability in Laponite and Mud</i>			
12.45-13.05	Nuno Azevedo ,D. Pinheiro ,A. A. Pinto, S. Z. Xanthopoulos ,A. N. Yannacopoulos	<i>A note on behavioural scenarios for the pricing of contingent claims in multiperiod markets</i>			
13.05-13.25	D. Pinheiro, Susana Pinheiro	<i>Vaccination and parameter uncertainty on a SIS epidemiological model</i>			
13.25-13.45	Concepcion Muriel , J. L. Romero	<i>Lambda-symmetries and linearization of ordinary differential equations through nonlocal transformations</i>			

Saturday, July 31, 2010		Parallel Section 37		PLACE- AMFI 2	
12:25-13:45	Nonlinear Phenomena and Numerical Methods in Hydrodynamics	Chair	Tapati Dutta	Co-chair	Juan Vidal
12.25-12.55	Supti Sadhukhan, S.Tarafdar, Tapati Dutta	<i>Effect of chemical kinetics on permeability of a porous rock:Scaling by concentration of active fluid</i>			
12.55-13.25	Juan Vidal ,Manuel Berrocoso Bismarck Jigena	<i>Hydrodynamic modeling of port foster, deception island (Antarctica)</i>			

Saturday, July 31, 2010		Parallel Section 38		PLACE- AMFI 3	
12:25-13:45	Nonlinear Science and Complexity 5	Chair	Abdullah Algin	Co-chair	Adil Huseynov
12.25-12.50	Abdullah Algin	<i>Q-deformed fermionic oscillators</i>			
12.50-13.20	Adil Huseynov	<i>Weyl's Limit Point and Limit Circle Cases for a Dynamic Equation on Time Scales</i>			
13.20-13.45	Erdal Karapınar	<i>Remarks On Suzuki(C)-Condition</i>			

Saturday, July 31, 2010		Parallel Section 39		PLACE- Blue Hall	
17:00-18:45	Exactly Solvable Nonlinear Systems: Theory and Applications	Chair	Fernando Baltazar Duarte	Co-chair	Farhoush Kiani
17.00-17.35	Ebru Ergun Huseynov	<i>On the Eigenvalues of a Non-Hermitian Hamiltonian</i>			
17.35-18.10	Farhoush Kiani, Abbas Ali Rostami, Sasan Sharifi, , Azar Bahadori	<i>Thermodynamic and computational study of acidic dissociation constants of glycylglycine in water at different temperatures using Ab initio methods</i>			
18.10-18.45	J. Tenreiro Machado , Fernando B. Duarte ,Goncalo Monteiro Duarte	<i>Multidimensional Scaling Analysis of Stock Market Values</i>			

Saturday, July 31, 2010		Parallel Section 40		PLACE- AMFI 2	
14:45-16:45	Fractional Calculus Applications	Chair	Micael Couceiro	Co-chair	Necati Özdemir
14.45-15.15	Micael Couceiro, N. M. Fonseca Ferreira J. A. Tenreiro Machado	<i>Hybrid Adaptive Control of a Dragonfly Model</i>			
15.15-15.45	Firat Evirgen, Necati Özdemir	<i>Application of MHPM to an optimization problem governed by fractional order differential equations</i>			
15.45-16.15	Sami Muslih, Om P.Agrawal	<i>Solution of a wave equation in a fractional space</i>			
16.15-16.45	Sami Muslih, Om P.Agrawal	<i>Schrodinger equation in fractional space</i>			

Saturday, July 31, 2010			Parallel Section 41	PLACE- AMFI 1	
14:45-16:30	Nonlinear Science and Complexity 6	Chair	Chunqing Lu	Co-chair	Bogdan Caruntu
14.45-15.25	Chunqing Lu		<i>An Alternative Method for Chaos in a Mathematical Pendulum with Periodic</i>		
15.25-16.00	Constantin Bota, Bogdan Căruntu , Liviu Bereteu		<i>Approximate Polynomial Solution of a Nonlinear Differential Equation Using a Taylor-type Method</i>		
16.00-16.30	Bahareh Atoufi, Caro Lucas, Ali Zakeralhosseini		<i>Improving EEG prediction using multi-channel prediction Others File</i>		
Saturday, July 31, 2010			Parallel Section 42	PLACE- Blue Hall	
14:45-16:30	Nonlinear Science and Complexity 7	Chair	Constantin Udriste	Co-chair	Alireza Karbasi
14.45-15.25	Constantin Udriste, Andreea Bejenaru		<i>Invex Energies on Riemannian Manifolds</i>		
15.25-16.00	Constantin Udriste, Romeo Bercia		<i>Complex Analytic Flows</i>		
16.00-16.15	Alireza Karbasi		<i>Fuzzy multiple-criteria decision making for crop area planning in Sistan</i>		
16.15-16.30	Tolga Omay		<i>Why Does the Spread Predict Inflation and Real Economic Activity: Evidence from Turkey?</i>		
Saturday, July 31, 2010			Parallel Section 43	PLACE- Conference Hall	
14:45-16:30	Chaotic Dynamics and Transport in Classical and QS	Chair	Nick Laskin	Co-chair	Maxim Budyansky
14.45-15.15	Nick Laskin		<i>Exciton-Phonon Dynamics with Long-Range Interaction</i>		
15.15-15.45	Maxim Budyansky		<i>Transport barriers and their destruction in laboratory and geophysical jet currents</i>		
15.45-16.10	Lev Lerman		Title TBA		
16.10-16.30	Aysegul Yilmaz		Title TBA		
Saturday, July 31, 2010			Parallel Section 44	PLACE- Conference Hall	
17:00-18:45	Exactly Solvable Nonlinear Systems	Chair	Paulo Jorge de Azevedo Lopes dos Santos	Co-chair	Michael Winkler
17.00-17.20	Sengul Nalci, Oktay Pashaev		<i>q-Shock Soliton Solutions and C-Integrable q-Burgers Type Equation</i>		
17.20-17.40	Şirin Atılğan Büyükaşık, Oktay K. Pashaev		<i>Madelung Representation and Exactly Solvable Schrodinger-Burgers Equations with Variable Parameters</i>		
17.40-18.10	Michael Winkler, S.Stockle, G. Kofod, R. Krastev, M. Abel		<i>Turbulent Mixing in Soap Films</i>		
18.10-18.45	P. J. de Azevedo Lopes dos Santos, T-P Azevedo-Perdicoulis, G. Jank, J. A. Ramos, J. L. Martins de Carvalho		<i>Leakage detection and location in gas pipelines through an LPV identification approach</i>		
Saturday, July 31, 2010			Parallel Section 45	PLACE- AMFI 1	
17:00-18:45	Mathematical Models in Engineering	Chair	Carla Pinto	Co-chair	Farhaneh Golozari
17.00-17.35	A.P. Santos, Carla M.A. Pinto		<i>Gait transition in a central pattern generator for bipeds</i>		
17.35-18.10	Azizollah Jafari, Farhaneh Golozari		<i>Application of Ranking Function to solve Fuzzy Location-Routing problem</i>		
18.10-18.45	Mourad Mordjaoui, B. Boudjema, M. Bouabaz, R. Daira		<i>Short term electric load forecasting using Neuro-fuzzy modeling for nonlinear system identification</i>		
Saturday, July 31, 2010			Parallel Section 46	PLACE- AMFI 1	
17:00-18:45	Chaotic Dynamics and Transport in Classical and QS	Chair	Sergey Prants	Co-chair	Xavier Leoncini
17.00-17.45	Xavier Leoncini		<i>Existence of Quasi-stationary states at the Long Range threshold</i>		
17.45-18.30	M.V.Budyansky, M.Yu.Uleysky, S.V. Prants		<i>Transport barriers and their destruction in laboratory and geophysical jet currents</i>		