SCHEDULE

of the 8th edition of the International Conference on Optimization of the Smart Systems and their Application in Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics and Neurorheabilitation OPTIROB 2013, 20-23 June 2013 President Hotel, Mangalia, Romania

Time table	Action	Place			
	20.06.2013				
13:00-14:00	Registration of participants	International Room of the Conference Hotel			
16:00-17:00	Registration of participants	International Room of the Conference Hotel			
17:00-19:00	Free program-visit Mangalia	Mangalia Town			
19:30-22:00	Dinner	Restaurant			
	21.06.2013				
9:00-10:00	Registration of participants	International Room of the Conference Hotel (4 th floor)			
10:00-12:00	Opening Ceremony Introducing the companies, organizations and participants Presentation of the invited papers and regular papers	International Room of the Conference Hotel (4 th floor)			
12:00-12:30	Coffee break	4 th floor			
12:30-14:00	Presentation of the invited papers and regular papers	Parallel sessions International Room 1 (4 th floor) and 2 (1 st floor) of the Conference Hotel			
14:00-16:00	Taking Photos & Lunch	Restaurant			
16:00-17:30	Presentation of the invited papers and	Parallel sessions			
10.00 17.50	regular papers	International Room 1 (4 th floor)			
	- ·9 F-·F	and 2 (1 st floor) of the Conference Hotel			
17:30-18:00	Coffee break	4 th floor			
18:00-19:30	Presentation regular papers	Parallel sessions International Room 1 (4 th floor) and 2 (1 st floor) of the Conference Hotel			
20:00-22:00	Festive dinner	Restaurant			
	22.06.2013				
10:00-12:00	Closing remarks, awarded the best session's papers and UASTRO certificate members	International Room 1 of the Conference Hotel (4 th floor)			
12:00-12:30	Coffee break	4 th floor			
13:00-15:00	Lunch	Restaurant			
16:00-20:00	Social program	Mangalia/Constanta			
20:00-22:00	Dinner	Restaurant			
	23.06.2013				
10:00-12:00	Lunch and Prepare return to Bucharest	Hotel Lobby			

All participants must do registration to get their conference documents and invoices in the front of the International Room 1 (4th floor)

SCHEDULE

International Conference

erospace, Robotics, Mechanical Engineering, Manufacturing

Systems, Biomechanics and Neurorehabilitation

Smart Systems and their application in

Organized by University Politehnica of Bucharest, Romania under the higher tulelage of the Romanian Academy of Technical Sciences, International Association of Computer Sciences and Information Technology IACSIT Singapore, Science and Engineering Institute USA and International University Association of Science and Technology from Romania

> In cooperation with: In the second second

Henry Coanda Air Force Academy Nicolae Balcescu L and Forces Academy National Institute of Developing and Research in Mecatronix and Measurements Pro Optica Society University Elias Emergency Hospital Medicine and Pharmacy University Solids Mechanics Institute of the Romanian Academy

President Hotel, Mangalia, Romania 20-23 June, 2013

After noon, June 20, 2013 (Thursday) Hotel (Lobby)

13:00-14:00	Arrival, Registration
16:00-17:00	Registration
17:00-20:00	Free program-Visiting Mangalia town
19:30-22:00	Dinner

Morning, June 21, 2013 (Friday) Hotel (International Conference Room 1, 4th floor)

	Hotel (International Conference Room 1, 4 th floor)		
9:00-10:00	Registration		
10:00-10:15	Opening Remarks		
10:15-10:35	Presentation of the National Organizations		
10:35-11:00	SC BFD CNC Technologies SRL-		
	CNC Machines Tools- Doru Bardac		
11:00-12:00	Plenary speach 1		
	Coil Type Ultrasonic Motor for Vascular Endoscope- S. Toyama		
	Plenary speech 2		
	Microbial adhesion to surfaces and beyond- J.Y.Leveau		
	Plenary speech 3		
	Robust Estimation for Optimal Guidance Laws- A.M. Stoica		
	Plenary speech 4		
	Frequency Response Analysis for Dynamic Model Identification and Control of a Ducted Fan Aerial		
	Vehicle in Hover- A. Banazadeh		
12:00-12:30	Coffee Break		
	Hotel (International Conference room 1) parallel sessions		
12:30-14:00	Plenary speech 5		
	Reentry Design Solution for a Hypersonic Small Capsule- R.D. Rugescu		
	Plenary speech 6		
	Aspects Regarding Software Simulation of a Quadcopter Dynamics- L. Coşereanu		
	Plenary speech 7		
	Extension Hybrid Force-Position Robot Control in Higher Dimensions- L. Vladareanu		
	Plenary speech 8		
	Robotics for Neurorheabilitation- M. Berteanu		
	Educational Model for the Cinematic Study of Non-Circular Gears- L. Ciupitu		
	Expert System for Coupling Selection- E.V. Butila, A.N. Panfir and G. Mogan		
	Researches Regarding Modal Analysis of a Pressure Wave Supercharger Rotor- C.G. Atanasiu and D.E.		
	Buzea		
	On the Choice of Shape Functions of Unsymmetrical Elastic Rotors- H. Parzer, H. Gattringer and S.		
	Hubinger		
	Passivity Based Control of a Cart with Inverted Pendulum- M. Jörgl, K. Schlacher and H. Gattringer		
	On Mechanical Amplification of the Piezoelectric Actuators Displacements- A.L. Cartal, M. Avram, C.		
	Bucşan, T.C. Apostolescu and V. Gheorghe		
14:00-16:00	Taking Photos & Lunch Break		
	Afternoon, June 21, 2013 (Friday)		
	Hotel (International Conference Room 1) parallel sessions		
16:00-17:30	Hydrodynamic Studies on Spherical Valve- I. Florescu, D. Florescu and D. Nedelcu		
	Multi-Objective Genetic Algorithm for Hover Stabilization of an Insect-Like Flapping Wing- <i>H</i> .		
	Khodabakhsh and A. Banazadeh		
	Frequency Response Analysis for Dynamic Model Identification and Control of a Ducted Fan Aerial		
	Vehicle in Hover- M. Effati and A. Banazadeh		
	Experimental Investigations and Numerical Simulations of the Viscous Flow around T-Profiles- M.		
	Schiaua, A. Dragomirescu and C.A. Safta On a New Model Reduction Method for CFD Systems Used for Flow Control Design- A.M. Stoica and		
	<i>M. Stoia-Djeska</i> Design Methodology and Preliminary Sizing of an Unmanned Mars Exploration Plane (UMEP)- <i>M.</i>		
	Behroo, A. Banazadeh and A.R. Golkhandan		
	Control of Vertical Flows Past Open Cavities- M. Stoia-Djeska, C.A. Safta and A. Cotuna		
17:30-18:00	Coffee Break		
17.50-10.00	Hotel (International Conference Room 1) parallel sessions		
18:00-19:30	Robust Stability Analysis in the Presence of Time-Varying Uncertainties and Time Delay- V. Pana and		
10.00 17.50	A.M. Stoica		
	A Fault Tolerant SINS/GPS/CNS Integrated Navigation Scheme Realized through Federated Kalman		
	Filter- M. Ushaq, F.J. Cheng and J. Ali		
	How to Synchronize and Register an Optical-Inertial Tracking System- A. Soroush, M. Akbar and F.		
	Farahmand		
	Calculus and Implementation of a TRTR Industrial Robot Servicing a Flexible Manufacturing Cell		
	Destined for the AAV Building Industry- S.M. Petrisor and G. Bârsan		
L	Secures for the first Bundang Industry Bill. For yor and G. Burbur		

	Research of the influence of progressive plantar supporters on the stability in biped position- B.C. Braun,
	I.C. Rosca and M.I. Baritz
	Adaptronics - an Intelligent Science Adaptive to Advanced Systems/Micro-Nanosystems- G.I. Gheorghe,
	V. Bratu and O. Dontu
	Evaluate the Electromagnetic Radiation Effects on the Facial Tissue- L. Ungureanu, L. Cristea, M.I.
	Baritz, D. Cazangiu and D. Buzea
	Design and Simulation of a Single DOF Human-Like Leg Mechanism- I.D. Geonea, C. Alexandru, A.
	Margine and A. Ungureanu
	Study on a Gripping Biomechanism Represented by the Human Dento-Maxillary Apparatus- M. Ciortan,
	L. Luca and A. Stancioiu
	Tribological Analysis and Optimization of Polymer Prosthetic Components as Drug Delivery Systems-
	M. Stamate Cretan and C. Stamate
20:00-22:00	Festive Dinner

Morning, June 21, 2013 (Friday)

	Hotel (International Conference Room 2) parallel sessions	
12:30-14:00	Plenary speech 9	
12.50 11.00	Automatic Manipulation of Parts Made from Yielding Material- J. Slamka, M. Jedinák, M. Tolnay, M.	
	Bachratý and O. Staš	
	Plenary speech 10	
	Optimisation of Single Edge Tools Exploitation Process- <i>T. Mikolajczyk and L. Romanowski</i> Plenary speech 11 Dimensional Compensation in Stern Tube Bushes Machining- <i>G.R. Frumusanu and A. Epureanu</i> Plenary speech 12	
Assisted Research of the Robots Kinematics and Dynamics Behavior with LabVIEW Ins A. Olaru and S. Olaru		
	Design of the User Interface for a Robotic Spray Pyrolysis System to Deposit Thin Films- M.L. Enescu,	
	C. Alexandru and M. Enescu	
	Determining the Shape and Volume of the Work Space for the Robot with Parallel Structure Delta 3DOF	
	Using the Monte Carlo Method- D. Andrioaia, G. Stan, M. Pascu and L. Mihăilă	
	NAO Robots Collaboration for Object Manipulation- A.N. Panfir, R.G. Boboc and G. Mogan	
	Determining the Driving Torques of the Robots with Delta 3DOF Parallel Structure by Using the MS ADAMS Software Pack- D. Andrioaia, D. Rotar and G. Puiu	
	Software Modules for Command and Control of the Anthropomorphic Gripper for Robots- I. Staretu, A.	
	Itu and C.C. Moldovan	
	Fuzzy Multiobjective Optimization Used in Tolerance Synthesis of Mechanisms- D. Duminică, I. Dutu,	
	<i>M. Avram and V. Gheorghe</i> Control System Design for a Mechatronic Solar Tracker- <i>M.A. Ionită and C. Alexandru</i> .	
	Videooptical Surface Shape and Integrity Estimation in Robots Machining- T. Mikolajczyk	
14:00-16:00	Taking Photos & Lunch Break	
	Hotel (International Conference Room 2) parallel sessions	
16:00-17:30	Multi-Criteria Kinematic Optimization of a Front Multi-Link Suspension Mechanism Using DOE	
	Screening and Regression Model- V. Joju and C. Alexandru	
	Vibration Behavior Analysis of Wire Rope Isolators Under Traction and Compression Load- D. Buzea,	
	A. Iacob, C. Soimaru and L. Ungureanu	
	About the Mechanical Characteristics Determination for Desmopan Membrane by Digital Image	
	Correlation Method- L. Suciu, A. Botean, M. Suciu and V. Ros	
15 30 10 00	Contention Method L. Sueta, M. Dolean, M. Sueta and V. Ros	
17:30-18:00	Coffee Break	
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17:30-18:00 18:00-19:30	Coffee Break Hotel (International Conference Room 2) parallel sessions Probe-Radius Compensation of the Bevel Gears Tooth Surface Using 3D Measured Points- E. Faluvegi	
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	Coffee Break Hotel (International Conference Room 2) parallel sessions Probe-Radius Compensation of the Bevel Gears Tooth Surface Using 3D Measured Points- E. Faluvegi and L. Cristea Mathematical Model for the Calculation of Linear Speed for a Water Jet Cutting Machine- S. Ferent-	
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	Morning June, 22.06.2013	
	Hotel (International Conference room 1)	
10:00-11:00	Closing remarks, the best session's papers awards and AUSTRO certificate members	
11:00-11:30	Coffee break	
12:00-13:30	Lunch	
13:30-19:30	Social program	
20:00-22:00	Dinner	
	Morning, June 23.06.2013	
	President Hotel Lobby	
10:00-12:00	Lunch	
	Prepare return to Bucharest	

Attention! For each lunch and dinner must take your bill from organizers. Free parking, beech and pool only for OPTIROB participants (contact hotel desk) Devices provided by the Conference Organizer: Laptops (with MS-office 2003 & Adobe Reader) Projectors & Screen Materials provided by the presenters: Power Point or PDF files Duration of each Presentation (Tentatively): Plenary presentation: 15 minutes of presentation and 5 minutes of Q&A Regular Oral Session: 10 minutes of presentation and 5 minutes of Q&A President Hotel, Mangalia, Romania



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