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, |
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| | 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 | |
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| | | |
| 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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| | Morning June, 22.06.2013 | |
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| | 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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