

Programme

Thursday, May 14 th , 2015			Paralell Conference Sessions		
	Room	Time		Room	Time
Registration – Talks with Sponsors	Aula	12:00-13:00	Robotics Session – Chair: Livia Cvetičanin, Gyula Mester	A0	16:30 - 18:30
Opening Ceremony – Chair: Éva Pataki, Igor Fürstner, Laslo Gogolak	A0	13:00-13:30	Presentations		
Workshop Session – Chair: Igor Fürstner, Laslo Gogolak	A0	13:30-16:00	Livija Cveticanin - Vibration of a Robot Arm		16:30 -16:45
Presentations			Josip Stepanić, Jelena Ćosić Lesičar and Marko Posavec - Detecting irregular dynamics of autonomous robotic systems using information entropy		16:45 -17:00
Dušan Vukašinović (National Instruments) - From modeling to deployment - single tool chain for design of next generation mechatronics systems		13:30 - 14:15	Duško Katić, Aleksandar Ćosić, Željko Despotović and Branko Miloradovic - QuickBot as Educational and Research Platform for Multi Mobile Robotic Systems		17:00 - 17:15
Slobodan Perišić (Autodesk) - Autodesk Factory Design Suite		14:15 - 15:00	Robert Cupec, Emmanuel Karlo Nyarko, Damir Filko and Luka Markasović - Recognition of Objects and Places in 3D Point Clouds for Robotic Applications		17:15 - 17:30
Dukai Zoltán (Dunkermotoren) - Up to date DC motor controll		15:00 - 15:45	Attila Nemes - Genetic Algorithm-Based Adaptive Fuzzy Logic Systems for Dynamic Modeling of Quadrotors		17:30 - 17:45
Break – Exhibition opening – Group photo	Aula	16:00 - 16:30	Gyula Mester - Modeling of Autonomous Hexa-Rotor Microcopter		17:45 - 18:00
Paralell Conference Sessions		16:30 - 18:30	Aleksandar Rodić, Ilija Stevanović and Đorđe Urukalo - Mechanical design, modeling and control of remotely operated river underwater robot		18:00 - 18:15
Gala dinner	Hotel Galeria	19:30-23:30	Aleksandar Batinica, Srđan Savić, Milutin Nikolic, Mirko Rakovic and Branislav Borovac - Dual BLDC Motor Driver for Arm of Humanoid Robot MARKO		18:15 - 18:30

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IT and Safety in Mechatronics: Chair: Zoltán Rajnai, Imre Lendák	A1	16:30-18:30
Presentations		
Dalibor Dobrilovic, Borislav Odadzic, Zeljko Stojanov and Zlatko Covic - Approach in IEEE 802.11 security analytics and its integration in University curricula		16:30 -16:45
Erika Eleven, Dijana Karuovic, Marjana Pardanjac and Dragana Glusac - The use of ICT in Collaboration and Communication in Accessing Knowledge Content at Higher Education Institutions in Serbia		16:45 -17:00
Nyikes Zoltan, Kerti Andras and Rajnai Zoltan - The Information Security Standards Dealing with Hungarian and International Organizations		17:00 - 17:15
Földesi Krisztina, Kovács Tibor and Rajnai Zoltán - Specification of The Application of Biometry in The Practice of Law Enforcement		17:15 - 17:30
Otti Csaba and Rajnai Zoltan - Comparison of hand geometry and fingerprint based identification		17:30 - 17:45
Ruboczki Edit and Rajnai Zoltan - Gamification in Developing Cloud Security Awareness		17:45 - 18:00
Imre Lendák and Karoly Farkas - Evaluation of simulation engines for crowdsensing activities		18:00 - 18:15
Istvan Kecskes, László Székács and Peter Odry - Lookup Table Based Fuzzy Controller Implementation in Low-power Microcontrollers of Hexapod Robot Szabad(ka)-II		18:15 - 18:30

	Room	Time
Mechanical Solutions in Mechatronics: Chair: Imre Kiss, Igor Fuerstner	206	16:30 - 18:00
Presentations		
Dragos Cornea, Ciprian Bulei, Mihai-paul Todor and Imre Kiss - Introduction of Smart Materials Technology-Based Products in the Automotive Industry		16:30 -16:45
Aleksandar Poznić, Danijela Miloradović and Atila Zelić - Determination of magnetic characteristics of some steels suitable for magnetorheological brake construction		16:45 -17:00
Rastislav Šostakov, Atila Zelić and Aleksandar Poznić - Survey of a Machine Driving System Operation in 2D and 3D Diagrams Torque vs. Angular Velocity		17:00 - 17:15
Attila Rétfalvi and Michael Stampfer - Automatic modification of adapter plates for the modular fixtures		17:15 - 17:30
Jovan Šulc, Dragan Šešlija and Vladimir Srndaljčević - Influence of Pneumatic Cylinder Damping on Consumption of Compressed Air		17:30 - 17:45
Daniel Işfănoi-Trif, Csaba Attila Gheorghiu, Vasile Alexaand Sorin Ratiu - Virtual Application Used to Simulate the Functionality of Engine Control Unit		17:45 - 18:00

Programme

			Friday, May 15 th , 2015		
	Room	Time		Room	Time
Automation : Chair: Nemcsics Ákos, Laslo Gogolak	A2	16:30-18:15			
Presentations			Poster Session: Chair: József Sárosi	Aula	10:00 - 10:30
			Posters		
Laszlo Schaffer and Zoltan Kincses - Implementation of an FPGA-based wind turbine HIL model		16:30 -16:45	Eva Pataki, Andras Sagi and Danica Drakulic - Self-Regulating Mechanisms Of Nature And Society And The Possibilities Of Constructing World Sustainability Models		
Ivan Beg, Branislav Tejic, Gordana Ostojic, Stevan Stankovski, Igor Baranovski and Dragana Oros - Banking kiosk's stamping sub-system realization		16:45 -17:00	Jozsef Sarosi, Attila Gergely and Fabian Tolgyi - Student Projects on Pneumatically Driven Muscle-like Actuators		
Almir Osmanovic, Adin Softic, Bahrudin Saric and Elvedin Trakic - Calculating traffic parameters by averaging vehicle occurrences in video frames		17:00 - 17:15	Janos Simon and Zlatko Čović - The Internet of Things in Web 2.0 Environment		
Sándor Csikós and Ádám Bálint - DC Motor Speed Control in LabVIEW		17:15 - 17:30	Róbert Sánta and Dorottya Boros - Investigating the coefficient of performance of an heat-pump with internal heat exchanger		
Akos Nemcsics and Antal Ürmös - Subject of "Low-dimensional Selfassembling System" in the mechatronical education at the Obuda University		17:30 - 17:45	Igor Fuerstner, Laslo Gogolak - Modification of technical documentation prepared by students for building a product prototype		
Milica M. Vujovic and Zeljko V. Despotovic - Dynamic Stress Distribution in Composite Leaf Springs for Electromagnetic Vibratory Feeder		17:45 - 18:00			
Dániel Tokodi, György Schuster and József Papp - The challenges of the intelligent railway network implementation		18:00 - 18:15			
			Excursion		Time 10:30 - 15:00
			Dunkermotoren Factory	Subotica	11:00 - 11:45
			Lunch at Lake Palic	Palic	12:15 - 14:15
			Conference Closing	Palic	14:15 - 15:00