



## SCHEDULE OF IN-TECH CONFERENCE 2014

### MAIN HALL, 11. September 2014

9:20 - 9:40	<b>OPENING SPEECH</b>	
<b>INVITED LECTURES</b>		
9:50 - 10:10	Tamara Grujic, Ivo Stancic and Mirjana Bonkovic	Research case study in biomedical engineering: new approach to biosignal processing
10:10 - 10:30	Carlos Neves	Technology application on interactive modules for museums and interpretation centers.
10:30 - 11:00	<b>COFFE BREAK</b>	

### HALL A, 11. September 2014

11:00 - 11:20	Ivan Volaric and Viktor Sucic	Signal sparsity and compressed sensing in the time-frequency domain
11:20 - 11:40	Sefko Sikalo and Edin Berberovic	Hydrodynamics of a droplet impacting on a flat inclined surface
11:40 - 12:00	Jussi Liikkanen	Combining RDI, teaching and CAD/PLM-systems
12:00 - 12:20	Sakari Koivunen	Review of Fuzzy String Comparison Algorithms for Duplicate Detection in Product Information Systems
12:20 - 12:40	Dana Benešová, Viktor Kreibich, Petr Drašnar and Michal Brezovan	AGITATION PROCESSES IN SURFACE TREATMENT TECHNOLOGIES
12:40 - 13:00	Arijana Macura	Empirical Study on Variants of TCP in Mobile Ad Hoc Network
13:00 - 14:30	<b>LUNCH</b>	
14:30 - 14:50	Abdelnaser Omran and Woo Sukwah	Factors contributing to the implementation of waterfront projects in west malaysia and its impacts
14:50 - 15:10	Leon Sikulec, Mate Torlak and Zlatan Car	The development, implementation and comparison of models of industrial robot using modelica modeling language
15:10 - 15:30	João Ramos, Artur Ribeiro and José Baptista	Passive Ventilation Concept and Design to a Net Zero Energy School Building
15:30 - 15:50	Gordan Janes, Zlatan Car and Dario Ogrizovic	Accelerators on parallel roads to exascale computing
15:50 - 16:10	Ola Hashem	Optimal shape design of curved elements made of natural wood in interior design
16:10 - 16:30	Mohamad Sharis Abdul Karim and Hamdan Al Shehri	Design For Feasibility Approach Of An Innovative High Density Polyethylene Industrial Pallet
16:30 - 16:45	<b>COFFE BREAK</b>	
16:45 - 17:05	Tânia Viana, Sara Biscaia, Artur Mateus and Cândida	Characterisation of a compound resulting of blend among polyethylene and pine sawdust
17:05 - 17:25	João Ramos, Helder Saraiva and João Galvão	A Study of a Geothermal Heat Pump Performance in a School Building
17:25 - 17:45	Michal Holubcik, Jozef Jandacka and Patrik Nemeč	Slags formation reduction during combustion of biomass by using of additives
17:45 - 18:05	Meri Olenius, Petri Lähde, Sami Rantamäki, Karirinne and Marko Ylinen	Innovative RDI platform model for hybrid renewable energy system and energy storage technology research and education

### HALL B, 11. September 2014

11:00 - 11:20	João Galvão, Licínio Moreira and Pedro Marques	Smart city and sustainable renovation of energy systems for efficiency
11:20 - 11:40	Sara Biscaia, Tânia Viana, Ana Tojeira, Artur Mateus, Ana Veloso and Cândida Malça	Production of a nanocellulose composite for additive manufacturing
11:40 - 12:00	Petr Rožkanin and Jan Kudláček	Influence of Release Agents on Thermoforming Technology - C/Pps
12:00 - 12:20	István Biró, Balázs Zsolt Farkas and Tibor Szalay	Comparative evaluation of machinability of iron-based materials and tool wear in micro-drilling
12:20 - 12:40	Tomas Bezak, Martin Kusy, Michal Elias, Michal Kopcek, Michal Kebisek and Lukas Spendla	Profile and area roughness determination of surfaces obtained by laser scanning confocal microscope
12:40 - 13:00	Sergey Shevtsov, Igor Zhilyaev, Paul Oganessian, Alexander Evlanov and Ilya Tarasov	The multiobjective cure process optimization to manufacture high loaded composite parts with varied walls thickness
<b>13:00 - 14:30</b>	<b>LUNCH</b>	
14:30 - 14:50	Dirk Hofmann, Philipp Sembdner, Stefan Holtzhausen, Christine Schöne and Ralph Stelzer	CT data capturing and processing potential for analysis of parts made by additive manufacturing
14:50 - 15:10	Luís Lourenço and Nuno Gil	Energy Storage Devices in Support of Isolated Networks Operation
15:10 - 15:30	Florina Liliana Potra and Vasile Filip Soporan	Fuzzy applications in the study of melting and solidification process
15:30 - 15:50	Jan Jansson and Timo Vaskikari	Organizing effective co-operation between industry and university
15:50 - 16:10	Petr Zikmund, Michaela Brathová and Barbora Bryksí Stunová	Nanoparticles in secondary metallurgy of silumins
16:10 - 16:30	Ismail Gerdemeli, Serpil Kurt and Emrah Tugberk Dayan	Finite element analysis of belt conveyor
<b>16:30 - 16:45</b>	<b>COFFE BREAK</b>	
16:45 - 17:05	Ricardo Miranda, Diogo Sousa, Carla Lopes and Carlos Ferreira	A wearable voice playback device for alternative and augmentative communication
17:05 - 17:25	Pedro Marinho and Carlos Ferreira	Low Cost Programmable Electronic Control Unit for Internal Combustion Engines
17:25 - 17:45	Tibor Szalay and Karali Patra	Investigation of micro drilling for development of tool condition monitoring system
17:45 - 18:05	Anabela Botelho, Lígia Pinto, Patrícia Sousa and Sara Sousa	Using contingent valuation to measure welfare losses to local communities due to the impacts of photovoltaic farms
18:05 - 18:25	Hadi Husain and Jaroslav Skopal	Nano Compounds & Plastic Production

## HALL A, 12. September 2014

INVITED LECTURES		
8:30 - 8:50	António Gomes Martins	
8:50 - 9:10	Martin Kubelka, František Tatíček, David Cvešper, Tomáš Pačák, Tomáš Pílvousek and Tomaž Pepelnjak	The verification of size deformations on small radii

9:10 - 9:30	Hermano Bernardo, Wilson Gonçalves and Filipe Oliveira	On the use of simulation to support energy efficiency assessment of lighting systems in a refurbished school building
9:30 - 9:50	Richard Lenhard and Jozef Jandačka	Application of mathematical simulations of heat pipes for experimental prototype of hot water heating
9:50 - 10:10	Ismail Gerdemeli, Serpil Kurt and Volkan Yıldız	Design analysis and control of belt conveyor transporting lignite coal
10:10 - 10:30	Modafar Ati, Asmaa Hussein and Wail Omar	Implementation of a Hybrid Approach for Chronic Disease Risk Assessment and Recommendation System
<b>10:30 - 11:00</b>	<b>COFFE BREAK</b>	

11:00 - 11:20	Justyna Trojanowska	Reduction of machine changeovers using smed method – case study
11:20 - 11:40	Dino Posavec, Mislav Zagar and Eduard Missoni	Transport safety: an analysis of child road deaths in Croatia
11:40 - 12:00	Ljerka Slokar, Tanja Matković and Prosper Matković	Microstructural analysis and Vickers hardness of heat treated biomedical Ti-Cr-Nb alloys
12:00 - 12:20	Dawid Pawłowski and Maciej Szumigała	Theoretical and numerical study of the flexural behaviour of BFRP RC beams
12:20 - 12:40	Ana Rita Farinha and Maria Teresa Vieira	2D nanocrystalline materials in powder technologies
12:40 - 13:00	Roxana Maria Angelescu, Doina Răducanu, Mariana Lucia Angelescu, Vasile Dănuț Cojocaru, Ion Cinca, Andreea Căprărescu and Mihai Buțu	Structural characteristics of a Ti-Zr-Ta-Nb alloy, processed by Accumulative Roll Bonding (ARB)
<b>13:00 - 14:30</b>	<b>LUNCH</b>	
14:30 - 14:50	Damir Kolich, Y. Lawrence Yao, Niksa Fafandjel and Marko Hadjina	Value Stream Mapping Micropanel Assembly with Clustering to Improve Flow in a Shipyard
14:50 - 15:10	Neven Bulic, Karlo Radman and Gruber Wolfgang	Modeling of bearingless flux-switching slice motor
15:10 - 15:30	Michael Clauß, Janek Götze, Egon Müller and Christian-Andreas Schumann	Real-Time Data Access Through Semantic Technologies and Augmented Reality in Facility Management Processes
15:30 - 15:50	Olivera Sauperl, Julija Volmajer-Valh and Jasna Tompa	Regenerated cellulose manufacturing from waste cotton under laboratory conditions
15:50 - 16:10	Patrik Nemeč, Milan Malcho and Michal Holubčik	Experimental investigation thermal performance and visualization heat transfer dynamics of mesh screen wick heat pipes
<b>16:10 - 16:35</b>	<b>COFFE BREAK</b>	



### HALL B, 12. September 2014

11:00 - 11:20	Antonio Valente, Francisco Pereira and Salviano Soares	Micromouse Portuguese Contest: A Didactic Robotic Project
11:20 - 11:40	Cosmin Toma, Radu Iovanas, Roata Ionut and Daniela Maria Iovanas	Research Regarding Tandem Mig/Mag Bilateral Welding on Generators Of X52 Hic Steel Mains
11:40 - 12:00	Razvan Florin Iovanas and Daniela Maria Iovanas	Increased Durability for Asphalt Milling Theet Through Laser Cladding and Alloyed Powders
12:00 - 12:20	Piotr Trojanowski and Justyna Trojanowska	Analysis of the polish market of liquid fuels
12:20 - 12:40	Serpil Kurt, Ismail Gerdemeli and Burak Bige	Design and finite element analysis lattice(cage) main beam of gantry crane
<b>13:00 - 14:30</b>	<b>LUNCH</b>	
14:30 - 14:50	Válter Calvário, Paula Vide and Nuno Gil	Use of renewable energy technologies and storage in Smart Grids: a case study
14:50 - 15:10	Maria Ratajczak and Teresa Kantel	The effect of selected accelerating admixtures on mechanical properties of cement-matrix
15:10 - 15:30	Matej Bračič, Tamilselvan Mohan, Rupert Kargl, Thomas Griesser, Silvo Hribernik, Stefan Köstler, Karin Stana-Kleinschek and Lidija Fras-Zemljč	Preparation of PDMS ultrathin films and patterned surface modification with cellulose
<b>15:30 - 16:35</b>	<b>COFFE BREAK</b>	