



SCHEDULE OF IN-TECH CONFERENCE 2014

MAIN HALL, 11. September 2014

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| 9:20 - 9:40 | OPENING SPEECH | |
| INVITED LECTURES | | |
| 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 | COFFE BREAK | |

HALL A, 11. September 2014

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| 11:00 - 11:20 | Matej Bračič, Tamilselvan Mohan, Rupert Kargl, Thomas Griesser, Silvo Hribernik, Stefan Köstler, Karin Stana-Kleinschek and Lidija Fras-Zemljič | Preparation of PDMS ultrathin films and patterned surface modification with cellulose |
| 11:20 - 11:40 | 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 |
| 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 | Ahmad Makkaoui, James Methven and Philip Pickering DANA | Luminaires based on Innovative Injection Moulded Secondary Optics which incorporate Remote Phosphors |
| 12:40 - 13:00 | Sakari Koivunen | A model for co-operative technology education between different levels of education |
| 13:00 - 14:30 | LUNCH | |
| 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 | Ivan Volaric and Viktor Sucic | Signal sparsity and compressed sensing in the time-frequency domain |
| 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 | COFFE BREAK | |



HALL B, 11. September 2014

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| 10:40 - 11:00 | Tibor Szalay and Karali Patra | Investigation of micro drilling for development of tool condition monitoring system |
| 11:00 - 11:20 | Sefko Sikalo and Edin Berberovic | Hydrodynamics of a droplet impacting on a flat inclined surface |
| 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 |
| 13:00 - 14:30 | LUNCH | |
| 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 | Tânia Viana, Sara Biscaia, Artur Mateus and Cândida | Characterisation of a compound resulting of blend among polyethylene and pine sawdust |
| 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 |
| 16:30 - 16:45 | COFFE BREAK | |



HALL A, 12. September 2014

| INVITED LECTURES | | |
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| 8:45 - 9:05 | Martin Kubelka, František Tatíček, David Cvešper, Tomáš Pačák, Tomáš Pilvousek and Tomaž Pepelnjak | The verification of size deformations on small radii |
| 9:05 - 9:25 | António Gomes Martins | Innovation and energy efficiency |

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| 9:30 - 9:50 | Maria Ratajczak and Teresa Kantel | Preparation of PDMS ultrathin films and patterned surface modification with cellulose |
| 9:50 - 10:10 | Michael Clauß, Janek Götze, Egon Müller and Christian-Andreas Schumann | Real-time data access through semantic technologies and augmented reality in facility management processes |
| 10:10 - 10:30 | Ismail Gerdemeli, Serpil Kurt and Volkan Yıldız | Design analysis and control of belt conveyor transporting lignite coal |
| 10:30 - 10:50 | Modafar Ati, Asmaa Hussein and Wail Omar | Implementation of a hybrid approach for chronic disease risk assessment and recommendation system |
| 10:50 - 11:20 | COFFE BREAK | |

HALL A, 12. September 2014

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| 11:20 - 11:40 | Justyna Trojanowska | Reduction of machine changeovers using smed method – case study |
| 11:40 - 12:00 | Serpil Kurt, Ismail Gerdemeli and Burak Bige | Design and finite element analysis lattice(cage) main beam of gantry crane |
| 12:00 - 12:20 | Ljerka Slokar, Tanja Matković and Prosper Matković | Microstructural analysis and Vickers hardness of heat treated biomedical Ti-Cr-Nb alloys |
| 12:20 - 12:40 | Dawid Pawłowski and Maciej Szumigala | Theoretical and numerical study of the flexural behaviour of BFRP RC beams |
| 12:40 - 13:00 | Ana Rita Farinha and Maria Teresa Vieira | 2D nanocrystalline materials in powder technologies |
| 13:00 - 13:20 | Damir Kolich, Y. Lawrence Yao, Niksa Fafandjel and Marko Hadjina | Value Stream Mapping Micropanel Assembly with Clustering to Improve Flow in a Shipyard |
| 13:30 - 15:00 | LUNCH | |



HALL B, 12. September 2014

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| 11:20-11:40 | Anabela Botelho, Lúgia Pinto, Patrícia Sousa and Sara Sousa | Using contingent valuation to measure welfare losses to local communities due to the impacts of photovoltaic farms |
| 11:40 – 12:00 | Antonio Valente, Francisco Pereira and Salviano Soares | Micromouse portuguese contest: a didactic robotic project |
| 12:00 - 12:20 | Cosmin Toma, Radu Iovanas, Roata Ionut and Daniela Maria Iovanas | Research regarding tandem mig/mag bilateral welding on generators of x52 hic steel mains |
| 12:20 - 12:40 | Razvan Florin Iovanas and Daniela Maria Iovanas | Increased durability for asphalt milling theet through laser cladding and alloyed powders |
| 12:40 - 13:00 | Hadi Husain and Jaroslav Skopal | Nano compounds & plastic production |
| 13:00-13:20 | Pedro Marinho and Carlos Ferreira | Low cost programmable electronic control unit for internal combustion engines |
| 13:30- 15:00 | LUNCH | |