



SCHEDULE OF IN-TECH CONFERENCE 2014

MAIN HALL, 10. September 2014

Campus 2 of the Polytechnic Institute of Leiria, Building B

18:00 - 21:00	EARLY REGISTRATION
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MAIN HALL, 11. September 2014

9:20 - 9:40	OPENING SPEECH
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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

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 Susic	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	

Venue: MIMO Museum, Leiria

18:00 - 21:00	"Welcome Reception"; Venue: MIMO Museum, Leiria
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HALL B, 11. September 2014

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	

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18:00 - 21:00	"Welcome Reception"; Venue: MIMO Museum, Leiria
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MAIN HALL, 12. September 2014

INVITED LECTURES		
8:45 - 9:05	Martin Kubelka, František Tatiček, 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

HALL A, 12. September 2014

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	
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 Szumigała	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

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	