

SCHEDULE OF IN-TECH CONFERENCE 2013

MAIN HALL, 11. September 2013

9:20 - 9:40	OPENING SPEECH	
INVITED LECTURES		
9:50 - 10:10	Vladimir Genis, Alexandre Soukhomlinoff and Irina Khomchenko	PIEZOELECTRIC STUN PROJECTILE
10:10 - 10:30	Ampere Tseng and Miroslav Raudensky	RECENT DEVELOPMENT IN POLYMER HOLLOW-FIBER HEAT EXCHANGERS AND THEIR APPLICATIONS
10:30 - 11:00	COFFE BREAK	

HALL A, 11. September 2013

11:00 - 11:20	Max Edelmann and Roland Anderegg	MODELING AND CONTROL OF ROBOT AIDED BELT GRINDING MANUFACTURING PROCESS
11:20 - 11:40	Alexey Lobanov and Vladimir Tsetlin	INFLUENCE OF EXTERNAL ELECTROMAGNETIC RADIATION ON CONDUCTIVITY OF SEMICONDUCTOR MATERIALS
11:40 - 12:00	William Arrasmith	GENERALIZED WAVELENGTH DIVERSITY METHOD FOR HIGH-SPEED, HIGH SPATIAL RESOLUTION COLOR IMAGES
12:00 - 12:20	Robert Cep, Adam Janasek and Jana Petru	TESTING OF DISAL D460 CERAMIC CUTTING TOOL INSERTS AT IRREGULAR INTERRUPTED CUT
12:20 - 12:40	Mirka Leino, Pauli Valo, Joonas Kortelainen, Kari Laine and Arto Iivonen	INTELLIGENT MACHINE VISION SYSTEM FOR MEASURING GEOMETRICAL CHARACTERISTICS OF REINFORCING BAR
12:40 - 13:00	Miroslav Sahul, Milan Turňa and Martin Sahul	WELDING OF MAGNESIUM ALLOY TO ALUMINIUM ALLOY BY DISK LASER
13:00 - 14:30	LUNCH	
14:30 - 14:50	Emil Evin, Jozef Kmec and Erika Fečová	APPLICATION SIX SIGMA IN OPTIMIZATION AT THE TECHNOLOGY ELECTRIC DISCHARGE TEXTURING FOR ROLLING CYLINDERS OF STEEL SHEETS
14:50 - 15:10	Daria Litvina and Lubov Strogonova	MATHEMATICAL METHODS OF SPACE TELEMEDICINE TECHNOLOGIES APPLICABLE TO REMOTE RURAL SETTLEMENTS
15:10 - 15:30	Ales Herman, Marek Cesal and Petr Mikes	THE DEFORMATION OF LARGE DIFFICULTY SHAPE WAX PATTERNS AND CASTINGS IN INVESTMENT CASTING TECHNOLOGY
15:30 - 15:50	Miroslav Jáňa, Milan Turňa, Milan Ožvold and Ladislav Kolařík	TRANSIENT LIQUID PHASE WELDING OF ALUMINIUM TO MAGNESIUM ALLOY USING ZINC INTERLAYER
15:50 - 16:10	William Arrasmith and Barry Webster	OPTIMAL SYSTEMS ENGINEERING DRIVEN SEARCH AND SCAN PATTERN DETERMINATION FOR DETECTING NON-COOPERATIVE MOVING GROUND TARGETS USING MICRO-UAV "SWARM" CONCEPT AND GAME THEORY
16:10 - 16:30	Meri Paavola, Suvi Karirinne and Sami Rantamäki	NOVEL METHOD FOR MEASURING AND CONTROLLING HYBRID RENEWABLE ENERGY INFRASTRUCTURE BY JDDAC-SOFTWARE
16:30 - 16:45	COFFE BREAK	
16:45 - 17:05	Carla Simões, Lígja Pinto and Carlos Bernardo	PREDICTING THE FUTURE PRICES OF RAW MATERIALS: A CONTRIBUTION TO SUSTAINABLE PRODUCT DEVELOPMENT
17:05 - 17:25	Foroozan Zare and Árpád Veress	MATHEMATICAL MODEL DEVELOPMENT AND THERMO-DYNAMICAL CYCLE ANALYSES OF A DUAL SPOOL NO BY-PASS AND A DUAL SPOOL MIXED TURBOFAN ENGINES
17:25 - 17:45	István Gábor Gyurika	EXPERIMENTAL PROTOCOLS TO DEFINE QUALITY METRICS FOR MILLED EDGES IN GRANITE
17:45 - 18:05	Christopher Benson and Christopher Magee	TECHNOLOGICAL CAPABILITY DYNAMICS OF MANUFACTURING PROCESSES

HALL B, 11. September 2013

11:00 - 11:20	Elizaveta Davydova and Lubov Strogonova	THE MATHEMATICAL MODEL OF DECISION MAKING UNDER UNCERTAINTY AS TO ENSURE THE SAFETY OF MANNED SPACECRAFT
11:20 - 11:40	Subarna Basnet and Christopher Magee	MODELING TECHNICAL CAPABILITY CHANGES WITH TIME
11:40 - 12:00	Mohammad Hossain Mohammadi, Saif Al Ameri, Sana Ziaei and Jinane Mounsef Biri	COMPARATIVE STUDY OF SKELETONIZATION AND RADIAL DISTANCE METHODS
12:00 - 12:20	Lubov Strogonova, Milena Koloteva and Oleg Orlov	MATEMATICAL MODEL INERTIAL FORCES ON THE HUMAN BODY FOR RSC
12:20 - 12:40	Guiming Rong and Hiroyuki Kisu	STUDY ON DYNAMIC RESPONSE OF MATERIALS TO A BLAST LOADING BY SMOOTHED PARTICLE HYDRODYNAMICS
12:40 - 13:00	Ersin Bahceci and Yusuf Ozcatalbas	MICROSTRUCTURAL CHARACTERISATION OF THE ALSIMG ALLOY METALLIC FOAMS PRODUCED WITH P/M METHOD
13:00 - 14:30	LUNCH	
14:30 - 14:50	Dan Dumitriu, Razvan Vlad VasIU and Cornel Brisan	AVATAR MODELS FOR SUSPENSION MECHANISMS
14:50 - 15:10	Ivana Mihajlovic, Mirjana Vojinovic Miloradov, Maja Djogo, Dusan Milovanovic and Nevena Senk	MODIFIED EXTRACTION METHOD FOR INDUSTRIAL CONTAMINANTS
15:10 - 15:30	Zsolt Váradi, Ottó B. Lőrinczi, Gábor Balassa and Pál Bencze	MEASUREMENT OF THE ALTITUDE-DEPENDENT VARIATION IN ION COMPOSITION WITH GERDIEN CONDENSERS
15:30 - 15:50	Tomáš Kupec, Milan Turňa and Peter Zifčák	FRICITION STIR WELDING OF MAGNESIUM ALLOY TYPE AZ 61
15:50 - 16:10	Peter Krampoťák, Jozef Bárta, Katarína Bártová, Kristián Šalgó and Koloman Ulrich	WELDING OF A THIN DSS 2205 WITH AISI 304 BY LASER BEAM
16:10 - 16:30	Agnieszka Misztal	THE SPECIFICITY OF THE SYSTEM TO ENSURE THE QUALITY OF SUPPLIES FOR THE MILITARY IN THE CONSTRUCTION INDUSTRY
16:30 - 16:45	COFFE BREAK	
16:45 - 17:05	Adrian Ilka and Vojtech Veselý	DISCRETE GAIN-SCHEDULED CONTROLLER DESIGN: GUARANTEED COST AND AFFINE QUADRATIC STABILITY APPROACH
17:05 - 17:25	Gábor Kocsis, Veronika Grósz, Vilmos Gorócz and Attila Bérces	STRATOSPHERIC BALLOON PLATFORM FOR INVESTIGATION OF THE EFFECTS OF UV-RADIATION ON BIOLOGICAL SYSTEMS
17:25 - 17:45	Malgorzata Jasiulewicz-Kaczmarek	SUSTAINABLE MAINTENANCE – THE NEXT GENERATION OF MAINTENANCE MANAGEMENT
17:45 - 18:05	Csaba Harasztkó, István Németh and James S. Baldwin	DES CONFIGURATORS FOR RAPID PROTOTYPING OF MANUFACTURING SYSTEMS
18:05 – 18:25	Mohd Sallehuddin Yusof, Muhammad Idris Maksud and Zaidi Embong	AN INVESTIGATION INTO PARAMETER EFFECT ON MICROCONTACT PRINTING USING CARBON AND BIOLOGICAL INK AND XPS STUDY ON SURFACE MORPHOLOGY

HALL A, 12. September 2013

INVITED LECTURES		
8:30 - 8:50	Miroslav Plancak, Dejan Movrin, Zlatan Car, Numan Durakbasa and Dragisa Vilotic	ORBITAL FORGING OF CROSS JOINT COMPONENT
8:50 - 9:10	Miroslav Zetek and Ivana Cesakova	INFLUENCE OF THE CUTTING EDGE MODIFICATION ON CUTTING FORCES WHEN DRILLING
9:10 - 9:30	Gordan Janes, Zlatan Car and Dario Ogrizovic	A FAST GENETIC ALGORITHM BASED ON SINGLE GENE EVALUATION FITNESS MECHANISM FOR JOB-SHOP SCHEDULING PROBLEM
9:30 - 9:50	Ivana Cesakova and Miroslav Zetek	POSSIBILITIES OF THE TOOL WEAR EVALUATION
9:50 - 10:10	Maria Ratajczak and Justyna Trojanowska	QUANTIFICATION OF POLYMER MODIFIED BINDERS USING IR SPECTROSCOPY
10:10 - 10:30	Nilay Sangani, Balakrishnan Vijayakumar and Madijagan Muthaiyan	SOCIAL MEDIA SECURITY STRATEGY ARCHITECTURE FOR ONLINE REPUTATION MANAGEMENT
10:30 - 11:00	COFFE BREAK	

HALL A, 12. September 2013

11:00 - 11:20	Adam Górný	THE WORK ENVIRONMENT IN THE STRUCTURE OF MANAGEMENT SYSTEM
11:20 - 11:40	László Velinszky and Tamás Dabóczy	OPTIMAL COURSE CALCULATION FOR SAILING VESSELS
11:40 - 12:00	Fabio Jose Martins de Lima	THE COMPANY TOWNS' CULTURAL HERITAGE AS A SUBJECT OF COMPARATIVE ANALYSIS: PARTICIPATION INCLUDING PEOPLE
12:00 - 12:20	William Arrasmith, Eric Skowbo and John Olson	AN OVERVIEW OF THE DETECTION AND CHARACTERIZATION OF MAN-MADE SIGNALS-OF-INTEREST USING AN INFRASOUND ARRAY
12:20 - 12:40	István Biró, Tibor Szalay and Sándor Markos	MACHINABILITY OF S960QL HIGH STRENGTH STRUCTURAL STEEL: ENERGETIC DESCRIPTION OF CUTTING AT SMALL CHIP-THICKNESS IN FACE MILLING
12:40 - 13:00	Witold Stankiewicz, Marek Morzyński and Robert Roszak	NUMERICAL SIMULATION OF THE FLOW PAST A FLEXIBLE AIRFOIL
13:00 - 14:30	LUNCH	
14:30 - 14:50	Robert Roszak, Witold Stankiewicz, Marek Morzynski and Michal Nowak	FLUID STRUCTURE INTERACTION ANALYSIS FOR HIGH-LIFT DEVICES BASED ON REAL AIRCRAFT OBJECT
14:50 - 15:10	İsmail Gerdemeli, Serpil Kurt and Gokce Akgun	DESIGN AND ANALYSIS WITH NUMERICAL METHOD OF GANTRY CRANE MAIN BEAM
15:10 - 15:30	Pavol Bozek and Vanessa Prajová	MANAGEMENT FOR DETECTION OF DEFECTIVE OBJECTS IN AUTOMATED ROBOT PRODUCTION LINE
15:30 - 15:50	Ankica Rađenović and Jadranka Malina	ADSORPTION OF CHROMIUM (VI) IONS ONTO CARBON BLACK - LANGMUIR ISOTHERMS
15:50 - 16:10	Konstantin Ivanov, Olga Knol and Beibit Shingissov	MECHANICAL ADAPTIVE DRIVE OF WIND TURBINE GENERATOR
16:10 - 16:30	Ivan Gago, Gustavo Pelaez, Juan Cantano and Antonio Fernandez Ulloa	TOWARDS THE USE OF SIMULATION TECHNIQUES FOR NON-TRADITIONAL CLAMPING IN MACHINING OPERATIONS
16:30 - 16:45	COFFE BREAK	
16:45 - 17:05	Tamás Dabóczy	ROBUST ADAPTIVE FOURIER ANALYZER
17:05 - 17:25	Tamás Dabóczy	SIGNAL-PATH COMPENSATION IN MEASUREMENT TECHNIQUE, AN OVERVIEW

HALL B, 12. September 2013

11:00 - 11:20	Jim Methven, Philip Pickering, Ahmad Makkauoi and Huw Owen	LUMINAIRES BASED ON INNOVATIVE INJECTION MOULDED SECONDARY OPTICS WHICH INCORPORATE REMOTE PHOSPHORS
11:20 - 11:40	Zoltan Janik and Katarina Zakova	ONE EXAMPLE OF RTAI-BASED REMOTE EXPERIMENT
11:40 - 12:00	Omar Awad and Ameen El-Sinawi El-Sinawi	ESTIMATION OF THE DISPLACEMENT OF RF-MEMS SWITCH MEMBRANE FROM CURRENT MEASUREMENTS ACROSS THE SWITCH CAPACITOR
12:00 - 12:20	Tibor Szalay, Balázs Zsolt Farkas and Vilmos Csala	INVESTIGATION OF MICRO DRILLING THE STAINLESS STEEL MATERIAL IN THE ASPECTS OF ENERGETICS AND TOOL WEAR
12:20 - 12:40	C.A. Bernardo, F.J.C. Pirotta and E.C. Ferreira	ENVIRONMENTAL CONSEQUENCES OF MALTESE MSW INCINERATION
12:40 - 13:00	Michal Rychlik, Witold Stankiewicz and Marek Morzynski	3D HAND BIOMETRICS – PROBLEMS OF ACQUISITION AND REGISTRATION 3D DATA
13:00 - 14:30	LUNCH	
14:30 - 14:50	Radu Negru, Liviu Marsavina, Cristiana Caplescu and Hannelore Filipescu	ASSESSMENT OF BRITTLE MIXED MODE FRACTURE USING THE THEORY OF CRITICAL DISTANCES
14:50 - 15:10	Pal Simon and László Dudás	EXPLORATION OF A NEW CROSSOVER OPERATOR FOR GENETIC ALGORITHMS FOR ORDER PLANNING PROBLEMS
15:10 - 15:30	Peter Bikfalvi, Ferenc Erdélyi and Tibor Tóth	SOME CONSIDERATIONS ON IMPROVING PLANNING AND CONTROL ACTIVITIES OF MANUFACTURING OPERATIONS MANAGEMENT
15:30 - 15:50	György Wagner and Tibor Prof. Dr. Tóth	WARFARE ON THE INTERNET
15:50 - 16:10	Mónika Kulcsárné Forrai, Ferenc Erdélyi and Gyula Kulcsár	A NEW EXTENDED MODEL FOR SOLVING FLEXIBLE JOB SHOP SCHEDULING PROBLEMS
16:10 - 16:30	Robert Roszak, Witold Stankiewicz and Marek Morzynski	FLUID STRUCTURE INTERACTION ANALYSIS FOR HIGH-LIFT DEVICES BASED ON REAL AIRCRAFT OBJECT
16:30 - 16:45	COFFE BREAK	
16:45 - 17:05	Ismail Gerdemeli, Serpil Kurt and Gokce Akgun	DESIGN AND ANALYSIS WITH NUMERICAL METHOD OF GANTRY CRANE HOOK BLOCK
17:05 - 17:25	Željka Milanović, Nicoletta Saulig and Victor Sučić	NONSTATIONARY SIGNAL BLIND SOURCE SEPARATION USING CLUSTERING ALGORITHMS
18:05 - 18:25	Marko Kršulja and Zlatan Car	FINITE ANALYSIS OF DEEP DRAWING TOOL GEOMETRY FOR THIN WALLED TIN CAN