



University of Banja Luka
Faculty of Mechanical Engineering
26th - 28th May 2011

DEMI 2011

*10th Anniversary International conference
on accomplishments in
Electrical and Mechanical Engineering and
Information Technology*

CONFERENCE PROGRAM

BANJA LUKA, May 2011.

CONFERENCE PROGRAM

THURSDAY, 26. May 2011		
TIME	PLACE	ACTIVITY
8.30 : 9.30	Entrance hall	Registration of the participants
9.30 : 12.30	Amphitheatre	Conference Opening and Keynote Lectures: Claudio R. Boër: Sustainable Innovation and Innovation for Sustainability: The Evolution and Involution of Production Paradigms Giambattista Ravano: Cooperation Models Between Universities and Industry In Applied Research, Switzerland Case Study and Some Practical Examples Radivoje Pešić, Stevan Veinović: Transport Ecology and Global Climate Change Trygve Thomessen
12.30 : 14.00	Entrance hall	Welcome Cocktail
14.00 : 19.00	Amphitheatre, Rooms 11, 19, 21 and 29	Work in Sections
19.00 : 20.00	Free Time	
20.00	Restaurant "Integra"	Gala Dinner

FRIDAY, 27. May 2011		
TIME	PLACE	ACTIVITY
8.30 : 10.30	Amphitheatre	Keynote Lectures: Neven Duić: Renewable Energy as a Driver of Economic Growth Milosav Ognjanović: Design Constraints and Robust Design as the Modern Approach to Mechanical Structure Development Stojan Petrović, Božidar Nikolić, Emil Hnatko, Jovo Mrđa, Stevan Veinović: Malicious Ecology on Vehicles and Traffic Example Moderators: PhD. Miroslav Rogić, PhD. Snežana Petković, PhD. Petar Gvero
10.30 : 10.45	Coffee Break	
10.45 : 12.30	Rooms 11 and 19	Work in Sections
12.30 : 14.00	Amphitheatre	Presentation of Companies: 1. RMS d.o.o Belgrade, representative of Bruel&Kjaer, Denmark 2. National Instruments d.o.o. Celje, Slovenia 3. Tehničko razvojni centar-TRC, Novi sad, Serbia 4. Kaldera Company d.o.o. Laktaši, Republic of Srpska, BiH
14.00 : 19.00	Social Events: Banja Luka Bus Tour Visit to Rafting Center Karanovac and rafting for interested conference participants	

SATURDAY, 28. May 2011		
TIME	PLACE	ACTIVITY
9.30 : 11.00	Amphitheatre	Round table: "Modes of links and cooperation between university and industry"
11.00 : 12.00	Amphitheatre	End of Conference

WORK IN SECTIONS

THURSDAY, 26. May 2011		
TIME	PLACE	ACTIVITY
14.00 : 15.30	Room 11	Section A. MECHANICS AND DESIGN Papers with numbers 7-16 Moderators: PhD. Milosav Ognjanović PhD. Stevan Maksimović
	Amphitheatre	Section B. PRODUCTION TECHNOLOGIES AND ENGINEERING Papers with numbers 32-41 Moderators: PhD. Milan Zeljković PhD. Milentije Stefanović
	Room 19	Section C. TERMOTECHNIQUE AND ENERGETICS Papers with numbers 67-76 Moderators: PhD. Petar Gvero PhD. Milan Lečić
	Room 21	Section D. TRAFIC MEANS Papers with numbers 87-96 Moderators: PhD. Radivoje Pešić PhD. Miroljub Tomić
	Room 29	Section E. MECHATRONICS Papers with numbers 112-121 Moderators: PhD. Duško Lukač PhD. Mihajlo Stojčić
15.30 : 15.45	Coffee Break	
15.45 : 17.15	Room 11	Section A. MECHANICS AND DESIGN Papers with numbers 17-26 Moderators: PhD. Milenko Stegić PhD. Stevan Maksimović
	Amphitheatre	Section B. PRODUCTION TECHNOLOGIES AND ENGINEERING Papers with numbers 42-51 Moderators: PhD. Velimir Todić PhD. Tomasz Kudasik
	Room 19	Section C. TERMOTECHNIQUE AND ENERGETICS Papers with numbers 77-86 Moderators: PhD. Mića Vukić PhD. Popov Gencho Rousse
	Room 21	Section D. TRAFIC MEANS Papers with numbers 97-106 Moderators: PhD. Boran Pikula PhD. Aleksandar Milašinović
	Room 29	Section E. MECHATRONICS Papers with numbers 122-132 Moderators: PhD. Duško Lukač PhD. Tihomir Latinović

17.15 : 17.30		Coffee Break
17.30 : 19.00	Room 11	Section A. MECHANICS AND DESIGN Papers with numbers 27-31 Moderators: PhD. Valentina Golubović-Bugarski PhD. Strain Posavljak
	Amphitheatre	Section B. PRODUCTION TECHNOLOGIES AND ENGINEERING Papers with numbers 52-59 Moderators: PhD. Miroslav Plančak PhD. Ranko Zrilić
	Room 19	Section F. MAINTENANCE OF TECHNICAL SYSTEMS Papers with numbers 132-138 Moderators: PhD. Zdravko Milovanović PhD. Ljubo Glamočić
	Room 21	Section D. TRAFIC MEANS Papers with numbers 106-111 Moderators: PhD. Snežana Petković PhD. Dobrivoje Ninković

FRIDAY, 27. May 2011		
TIME	PLACE	ACTIVITY
10.45 : 12.30	Room 11	Section B. PRODUCTION TECHNOLOGIES AND ENGINEERING Papers with numbers 60-66 Moderators: PhD. Pantelija Dakić PhD. Milan Šljivić
	Room 19	Section F. MAINTENANCE OF TECHNICAL SYSTEMS Papers with numbers 139-145 Moderators: PhD. Darko Knežević PhD. Mihaela Popescu

AMPHITHEATRE**THURSDAY, 26. May 2011****Section B. PRODUCTION TECHNOLOGIES AND ENGINEERING**

TIME	NUM.	PAPER
14.00 : 15.30	32	Kramar D., Soković M., Kopač J. ADVANCED CUTTING TECHNOLOGY – HIGH-PRESSURE JET ASSISTED MACHINING
	33	Milan Milovanović, Milentije Stefanović ANALYSIS OF THE EFFECTS OF APPLYING NEW MATERIALS
	34	Tomasz Kudasik, Tadeusz Markowski, Olimpia Markowska, SŁAWOMIR MIECHOWICZ APPLICATION OF RAPID PROTOTYPING RESINS FOR PHOTOELASTIC TESTING
	35	Slavica Cvetković AUDITING PROCESS DESIGN COMPANY LOGISTICS SYSTEM
	36	Andonovic Vladan, Vrtanoski Gligorce CAD/CAM TECHNOLOGY IN DENTAL MEDICINE
	37	Zoran Janjuš, Aleksandar Petrović, Aleksandar Jovović, Radica Prokić-Cvetković, Predrag Ilić CHANGES VOLTAGE COMPACTION POLYPROPYLENE FILLED WITH GLASS POWDER
	38	Miletic Ostoja, Todić Mladen CHANGING THE WALL THICKNESS PROFILE IN THE PROCESS OF PROFILING
	39	Plavka Skakun, Miroslav Plančak, Dragiša Vilotić, Mladomir Milutinović, Dejan Movrin, Ognjan Lužanin COMPARATIVE INVESTIGATION OF DIFFERENT LUBRICANTS FOR BULK METAL FORMING OPERATIONS
	40	Borislav Kovljenić COMPLEXITY ANALYSIS OF CAD/CAM SYSTEMS INTEGRATION IN ERP BUSINESS ENVIRONMENT
	41	S. Aleksandrović, T. Vujinović, M. Stefanović, V. Lazić, D. Adamović COMPUTER CONTROLLED EXPERIMENTAL DEVICE FOR INVESTIGATIONS OF TRIBOLOGICAL INFLUENCES IN SHEET METAL FORMING
15.30 : 15.45	Coffee Break	
15.45 : 17.15	42	Radu Alexandru Roșu, Viorel Aurel Șerban, Mihaela Popescu, Uțu Dragoș Cosmin Locovei DEPOSITION OF TITANIUM NITRIDE LAYERS BY REACTIVE PLASMA SPRAYING
	43	Sławomir Miechowicz, Tadeusz Markowski, Tomasz Kudasik, Olimpia Markowska DESIGN AND FABRICATION OF MEDICAL MODELS WITH RAPID PROTOTYPING TECHNIQUES AND VACUUM CASTING
	44	Djordje Vukelic, Branko Tadic, Janko Hodolic, Igor Budak, Milovan Lazarevic DEVELOPMENT AN EXPERT SYSTEM FOR MACHINING FIXTURE DESIGN
	45	Bogdan Nedić, Gordana Globočki-Lakić DEVELOPMENT MODEL FOR CONTROL METAL CUTTING PROCESS
	46	Aurel Prstić, Zagorka Acimović-Pavlović, Zvonko Gulišija, Mirjana Stojanović DEVELOPMENT OF EPC PROCESS FOR MANUFACTURING PARTS IN AUTOMOTIVE INDUSTRY
	47	Obućina Murčo, Škaljić Nedim, Smajić Selver EFFECT OF SURFACE ROUGHNESS ON WOOD ADHESION
	48	M. Stefanović, D. Vilotić, M. Plančak, S. Aleksandrović, Z.Gulisija, D. Adamović FORMING LIMIT INDICATORS IN METAL FORMING

	49	Runčev Dobre, Gligorče Vrtanoski, Ljupčo Trpkovski HEATED TOOL BUTT WELDING OF POLYETHYLEN PIPES
	50	Marija Mihailović, Aleksandra Patarić, Zvonko Gulišija, Miroslav Sokić INCREASING PRODUCTION EFFICIENCY THROUGH CASTING QUALITY IMPROVING BY ELECTROMAGNETIC FIELD APPLYING
	51	Zorana Tanasić, Goran Janjić, Bobrek Miroslav, Živko Pejašinović INFLUENCE OF ORGANIZATIONAL CULTURE ON BUSINESS PERFORMANCE
17.15 : 17.30	Coffee Break	
17.30 : 19.00	52	Robert Molnar, Drago Soldat INNOVATION-THE KEY FACTOR IN ENTREPRENEURIAL CYCLES
	53	Vid Jovišević, Stevo Borojević, Gordana Globočki-Lakić, Branislav Sredanović LABORATORIES UNDER REQUIREMENTS OF DIRECTIVES AND STANDARDS OF EUROPEAN UNION
	54	Sanja Petronic, Andjelka Milosavljevic, Biljana Grujic, Radovan Radovanovic Radmila Pljakic LASER SHOCK PEENING OF N-155 SUPERALLOY EXPOSED TO AGGRESSIVE MEDIUM
	55	Bogdan Marić, Ranko Božičković LEAN CONCEPT TOOLS IN PROCESS OF TECHNICAL SYSTEMS OVERHAUL
	56	Ranko Radonjić, Milan Šljivić, Živko Babić, Milentije Stefanović NUMERICAL SIMULATION OF HOLE FLANGING OF CIRCULAR SHEETS
	57	Dejan Lukić, Velimir Todić, Mijodrag Milošević, Goran Jovičić ONE APPROACH TO THE DEVELOPMENT AND IMPLEMENTATION OF FLEXIBLE MANUFACTURING SYSTEMS
	58	Milentije Stefanović, Srbislav Aleksandrović, Dragan Adamović PAPER ABOUT PAPERS IN THE AREA OF METAL FORMING PRESENTED AT DEMI CONFERENCES HELD SO FAR
	59	Todic Mladen, Miletic Ostoja POSITION OF THE NEUTRAL SURFACE DEFORMATION AT BENDING TWO LAYER COMPOSITES

ROOM 11**THURSDAY, 26. May 2011**

Section A. MECHANICS AND DESIGN		
TIME	NUM.	PAPER
14.00 : 15.30	7	Michail Leparov, Georgi Dinev, Marieta Jancheva ABOUT RECEIPTS OF VARIANTS OF TECHNICAL OBJECTS
	8	Leparov M., Yancheva M. ABOUT THE INTEGRATION OF ASSEMBLY UNITS
	9	Darko Knežević, Aleksandar Milašinović, Zdravko Milovanović ANALYSIS OF INFLUENCE OF LENGTH OF DEVELOPMENT OF BOUNDARY LAYER ON FLOW RATE THROUGH RADIAL CLEARANCE WITHIN HYDRAULIC CONTROL COMPONENTS
	10	Nebojša Radić, Goran Sekulić, Dejan Jeremić ANALYTICAL-NUMERICAL STRESS ANALYSIS OF SPUR GEARS WITH STRAIGHT TEETH
	11	Georgy Dinev, Marieta Yancheva CAD DESIGN OF FLEXIBLE FRICTION COUPLING
	12	Dragan Lišanin, Marinko Petrović, Nenad Grujović, Jelena Borota COMPARATIVE ANALYSIS OF THE FORMATION OF SMALL GRAIN GUIDANCE
	13	Pavle Stepanić, Željko Đurović, Aleksa Krošnjar, Aleksandra Pavasović COMPARISON OF TECHNIQUES FOR DETECTION OF FAILURE ROLLING ELEMENT BEARINGS
	14	Strain Posavljak, Miodrag Jankovic, Katarina Maksimovic CRACK INITIATION LIFE OF NOTCHED METALLIC PARTS EXPOSED TO LOW CYCLE FATIGUE
	15	Srđan Bošnjak, Zoran Petković, Miloš Đorđević, Nebojša Gnjatović, Nenad Zrnić DESIGN IMPROVEMENTS OF THE BUCKET WHEEL WITH DRIVE
	16	Aleksandar Marinković, Aleksandar Čočić, Bratislav Stojiljković, Milan Vulićević DESIGN OF TESLA-TIFFANY CASCADE FOUNTAIN AS A SAMPLE OF TESLA'S RESEARCH CREATIVITY IN FIELD OF MECHANICAL ENGINEERING
15.30 : 15.45	Coffee Break	
15.45 : 17.15	17	Svetislav Lj. Marković DESIGN SEALS FOR REAL CONNECTIONS
	18	Valentina Golubović-Bugarski, Drago Blagojević, Đorđe Čiča, Branislav Sredanović DETECTION OF STRUCTURAL DAMAGE LOCATION USING FREQUENCY RESPONSE FUNCTION DATA
	19	Dragi Stamenković, Mato Perić DETERMINATION OF RESIDUAL STRESSES IN TUBULAR WELDED STRUCTURAL COMPONENTS
	20	Živko Pejašinović, Zorana Tanasić, Goran Janjić EFFECT OF MATERIAL PROPERTIES OF MEASURING FORCE TRANSDUCER ELASTIC ELEMENTS TO METROLOGY CHARACTERISTICS
	21	Siniša Kuzmanović, Milan Rackov EVALUATION OF CONCEPTUAL SOLUTIONS OF UNIVERSAL HELICAL TWO STAGE GEAR UNITS
	22	Ivica Čamagić, Nemanja Vasić, Zijah Burzić FATIGUE ANALYSIS FROM FRACTURE MECHANICS ANGLE
	23	Slobodanka Boljanović, Stevan Maksimović, Strain Posavljak FATIGUE LIFE ESTIMATION OF CRACKED STRUCTURAL COMPONENTS
	24	Ibrahim Badžak, Remzo Dedic, Mersida Manjgo HYDRAULIC INSTALLATION OF EKO CONTAINER

	25	Vesna Ranković, Nenad Grujović, Goran Milovanović, Dejan Divac, Nikola Milivojević PREDICTION OF DAM BEHAVIOUR USING MULTIPLE LINEAR REGRESSION AND RADIAL BASIS FUNCTION NEURAL NETWORK
	26	Nenad Zrnić, Srđan Bošnjak, Vlada Gašić, Miodrag Arsić SOME ASPECTS IN FAILURE ANALYSIS OF CRANES
17.15 : 17.30	Coffee Break	
17.30 : 19.00	27	Stevan Maksimović, Ivana Vasović, Mirko Maksimović SOME ASPECTS TO DESIGN OF AIRCRAFT STRUCTURES WITH RESPECTS TO FATIGUE AND FRACTURE MECHANICS
	28	Andrija Vujičić, Nenad Zrnić STATE-OF-THE-ART IN LIFE CYCLE ASSESSEMENT AS A CORE OF LIFE CYCLE DESIGN
	29	Mersida Manjgo, Ljubica Milović, Zijah Burzić STRESS INTENSITY FACTOR AND ITS EFFECT OF STRUCTURAL INTEGRITY
	30	Vukojević Nedeljko, Hadžikadunić Fuad, Pavić Mate VIBRATORY STRESS RELIEVING OF TANK FLANGS
	31	Ranko Antunovic VIBRODIAGNOSTICS OF ROTATION MACHINES

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Section B. PRODUCTION TECHNOLOGIES AND ENGINEERING		
TIME	NUM.	PAPER
10.45 : 12.30	60	Milena Cosić, Zagorka Acimović-Pavlović, Zvonko Gulišija, Mirjana Stojanović, Zoran Janjušević POSSIBILITY TO USE RHEOCASTING PROCESS FOR MANUFACTURING PARTS IN AUTOMOTIVE INDUSTRY
	61	Zvonko Gulišija, Marija Mihailović, Aleksandra Patarić, Zoran Janjušević PROPERTIES OF THE WROUGHT Al ALLOY 7075 OBTAINED BY ELECTROMAGNETIC CASTING PROCESS
	62	Vrtanoski Gligorce, Andonovic Vladan RAPID TECHNOLOGY IN DENTAL BIOMECHANICS
	63	Stevo Borojević, Vid Jovišević, Gordana Globočki-Lakić, Đorđe Čiča, Branislav Sredanović, Marko Radisavljević SELECTION OF VARIANT FOR MATERIAL FLOW TYPE IN CONDITIONS OF GROUP APPROACH USING THE SOFTWARE SYSTEM TECNOMATIX PLANT SIMULATION
	64	Velimir Todić, Dejan Lukić, Mijodrag Milošević, Jovan Vukman TECHNOLOGICAL BASIS FOR THE DEVELOPMENT AND IMPLEMENTATION OF FLEXIBLE MANUFACTURING SYSTEMS
	65	Goran Janjić, Predrag Nagraisalović, Zorana Tanasić, Miroslav Bobrek, Živko Pejašinović THE PROCESS OF MEASURING EQUIPMENT MANAGEMENT AND ITS AUTOMATIZATION
	66	S. Mazzola, P. Pedrazzoli, G. Dal Maso, C. R. Boër VIRTUAL ENVIRONMENT PLATFORM FOR INDUSTRIAL OPERATION AND MAINTENANCE

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Section C. TERMOTECHNIQUE AND ENERGETICS		
TIME	NUM.	PAPER
14.00 : 15.30	67	Nataša Soldat, Mirjana Radišić BASIC ASPECTS OF DEFINING MECHANICAL-TECHNOLOGICAL SOLUTIONS FOR THE PRODUCTION OF BIOGAS FROM LIQUID MANURE
	68	Crnojević C., Lečić M. DETERMINATION OF PRESSURE DROP TWO-PHASE FLOW OIL AND GAS FOR ISOTHERMAL FLOW IN HORIZONTAL PIPELINE
	69	Igor Andreevski, Gligor Kanevče, Ljubica Kanevče, Aleksandar Markoski, Sevde Stavreva DEVELOPMENT AND APPLICATION OF REGULATORY DISPERSION MODEL FOR AIR POLLUTION ASSESSMENT
	70	Gordana Tica, Veljko Đuričković, Petar Gvero DIMENSIONING OBJECT'S COOLING SYSTEM FOR PREDETERMINED KNOWN RELIABILITY
	71	Mića Vukić, Velimir Stefanović, Predrag Živković, Mirko Dobrnjac EXPERIMENTAL INVESTIGATION OF THERMAL AND FLOW PROCESSES IN SHELL AND TUBE HEAT EXCHANGERS
	72	Popov G., Klimentov Kl., Kostov B. INVESTIGATION OF THE ENERGY CONSUMPTION IN REGULATING THE FLOW RATE OF PUMP SYSTEMS
	73	Đorđe S. Čantrak, Slavica S. Ristić, Novica Z. Janković LDA, CLASSICAL PROBES AND FLOW VISUALIZATION IN EXPERIMENTAL INVESTIGATION OF TURBULENT SWIRL FLOW
	74	Popov G., Klimentov Kl., Kostov B. METHODS TO ESTIMATE THE ENERGY CONSUMPTION IN REGULATING THE FLOW RATE OF PUMP SYSTEMS
	75	Majid Soleimaninia NUMERICAL INVESTIGATION OF HEAT TRANSFER ENHANCEMENT IN NATURAL CONVECTION AND FORCE CONVECTION IN A FLUID SATURATED VARIABLE POROSITY MEDIUM
	76	Milica Grahovac OBJECTIVE FUNCTION DEFINITION FOR PRIMARY HVAC SYSTEM TOTAL COSTS MINIMIZATION
15.30 : 15.45	Coffee Break	
15.45 : 17.15	77	Diana Alina Bistran, Manuela Pănoiu, Tihomir Latinović, Marcel Topor PARALLEL SOLUTIONS TO ACCELERATE MATHEMATICAL ALGORITHMS IN HYDRODYNAMIC STABILITY PROBLEMS
	78	Sevde Stavreva, Marko Serafimov, Igor Andreevski REDUCING CONSUMPTION OF ENERGY OF DATA CENTERS
	79	N. Manić, V. Jovanović, D. Stojiljković RESULTS OF EXPERIMENTAL INVESTIGATION OF PELLET STOVE ACCORDING TO EN 14875
	80	Mirjana Radišić, Nataša Soldat SOME EXPERIENCES IN THE PRODUCTION OF BIOGAS FROM LIQUID MANURE
	81	Aleksandar Stjepanović, Slađana Stjepanović, Ferid Softić, Zlatko Bundalo TEMPERATURE CHARACTERISTICS OF PHOTOVOLTAIC MODULE
	82	Predrag Živković, Gradimir Ilić, Mirko Dobrnjac, Mladen Tomić, Žana Stevanović WIND POTENTIALS ASSESMENT IN COMPLEX TERRAIN
	83	Ljubo Glamočić WIND POWER RESOURCES IN THE REPUBLIC OF SRPSKA

	84	Milovan Kotur, Gostimir Radić COVENANT OF MAYORS FORESEEN ACTIVITIES AT DISTRICT HEATING COMPANY – TOPLANA A.D. BANJA LUKA
	85	Milovan Kotur, Branko Usorac, Petar Gvero, Gordana Tica PARTIAL REPLACING HEAVY FUEL OIL WITH BIOMASS IN THE DISTRICT HEATING COMPANY IN GRADIŠKA
	86	Milovan Kotur, Zoran Knežević, Petar Gvero, Gordana Tica BIOMASS PROJECT IN DISTRICT HEATING COMPANY (DHC) IN PRIJEDOR, BIH
17.15 : 17.30	Coffee Break	

Section F. MAINTENANCE OF TECHNICAL SYSTEMS		
TIME	NUM.	PAPER
17.30 : 19.00	132	Mihailo Lazarević, Petar Mandić, Vasilije Vasić SOME APPLICATIONS OF NEUROARM INTERACTIVE ROBOT AND WEBOTS ROBOT SIMULATION TOOL
	133	Rusmir Bajrić, Enver Omazić, Fehmo Mrkaljević AVAILABILITY ANALYSIS OF IRREDUNDANT TECHNICAL SYSTEMS
	134	Aleksandar Živković, Milan Zeljković, Milorad Rodić, Milivoje Mijušković COMPUTER AND EXPERIMENTAL DETERMINATION OF THE HUB UNIT LIFE
	135	Danijela Nikolic, Vanja Sustersic, Jasmina Skerlic DECENTRALIZED WASTEWATER TREATMENT SYSTEMS IN LARGE SETTLEMENTS
	136	Ivan B. Krstić, Dragan I. Milosavljević, Božidar V. Krstić DETERMINATION THE PERIODICITY OF MANAGING OF PREVENTIVE MAINTENANCE OF TECHNICAL SYSTEMS
	137	Mihaela Popescu, Radu Alexandru Roșu, Carmen Opriș, Ibolyka Bran ENVIRONMENT PROTECTION FOR WELDING AND ALLIED TECHNIQUES
	138	Milomir Čupović, Desimir Jovanović, Bogdan Nedić FTA AND FMEA IN PREDICTING INCIDENTAL CONDITIONS IN CABLE CARS AND SKI LIFTS

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Section F. MAINTENANCE OF TECHNICAL SYSTEMS		
TIME	NUM.	PAPER
10.45 : 12.30	139	Milorad Pantelić, Srđan Bošnjak MAINTENANCE AND LIFECYCLE OF THE EXCAVATION UNITS
	140	Dusan Jovanic, Drago Soldat MODELING MAINTENANCE ACTIVITIES ON A WELDED CONSTRUCTION USING IDEFO METHODOLOGY
	141	Jasmina Skerlic, Vanja Sustersic, Danijela Nikolic NATURAL SYSTEMS OF WASTEWATER TREATMENT IN SMALL
	142	Miodrag Milutinović, Vladimir Popović PROCEDURES FOR RISK BASED MANAGEMENT AND MAINTENANCE RIMAP PRINCIPLE
	143	Dragoslav Dobraš, Sead Avdić PURPOSE AND METHOD EDUCATION OF INTERNATIONAL RECOGNIZED PERSONNEL FOR WELDING
	144	Aleksandar Majstorović SAFETY PARTS OF BODY TO RESPIRATION WITH BREATHING APPARATUS IN DANGEROUS ZONE
	145	Stojan Simić STATUS OF MAINTENANCE SERVICE IN COMPANIES IN REGION IN TIMES OF RECESSION

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Section D. TRAFIC MEANS		
TIME	NUM.	PAPER
14.00 : 15.30	87	Stojan Petrović, Božidar Nikolić, Emil Hnatko, Jovo Mrđa, Stevan Veinović MALICIOUS ECOLOGY ON VEHICLES AND TRAFFIC EXAMPLE
	88	Zlatomir Živanović, Zoran Jovanović, Željko Šakota A COMPARATIVE ANALYSIS OF CNG AND HYBRID BUSES VS DIESEL BUSES
	89	Milan Milovanović, Dragoljub Radonjić, Saša Jovanović ADJUSTMENTS OF VEHICLES WITH GAS DRIVE
	90	Dalibor Jajcevic, Raimund Almbauer APPLICATION OF A CYCLIC BOUNDARY CONDITION FOR CFD SIMULATIONS OF A 2-CYLINDER IC-ENGINE
	91	Melisa Velic, Semir Mulalic, Adnan Pecar CALCULATING THERMODYNAMIC PROPERTIES BY CREATING AND USING MODEL OF A DIESEL ENGINE WITH SIX CYLINDERS
	92	Mile Raičević, Miroslav Demić, Nebojša Rako, Predrag Milenković DETERMINING THE DURATION OF VIBRATION MEASUREMENTS OF HUMAN BODY IN LABORATORY CONDITIONS BY SUBJECTIVE METHODS
	93	Miroljub Tomić, Stojan Petrović, Slobodan Popović, Nenad Miljić DUAL PORT INDUCTION SYSTEM FOR DMB 1.4 MPI ENGINE
	94	Blažević A., Bibić DŽ., Filipović I. FUNCTION AND ADOPTION OF IC ENGINES DUAL MASS FLYWHEEL
	95	Jelena Eric Obucina, Jovanka Lukic HYDRAULIC PUMP IN THE OF VEHICLE STEERING SYSTEM
	96	Aleksandar Davinić, Radivoje Pešić, Dragan Taranović, Miroslav Ravlić IGNITION SYSTEM OF MULTIPROCESSING OTTO/DIESEL ENGINE
15.30 : 15.45	Coffee Break	
15.45 : 17.15	97	Filipović I., Milašinović A., Blažević A., Pecar A. IMPACT OF THE SPECIFIC ABSORBERS ON THE DYNAMIC LOAD OF THE IC ENGINE'S CRANKSHAFT
	98	Jasna Glišović, Jovanka Lukić, Danijela Miloradović IMPROVEMENTS OF GROUND VEHICLES FUEL ECONOMY USING REGENERATIVE BRAKING
	99	Predrag Živković, Mladen Tomić, Gradimir Ilić, Mirko Dobrnjac, Vladimir Lazović, INFLUENCE OF TRAFFIC ON AIR QUALITY IN NIŠ
	100	Boran Pikula, Ivan Filipović, Mirsad Trobradović INVESTIGATION OF DYNAMICS CHARACTERISTICS OF HYBRID VEHICLES
	101	Vladan Ivanovic, Decan Ivanovic, Vladimir Pajkovic LANDFILL GAS AS A FUEL FOR A VEHICLE FLEET FOR THE CITY LANDFILL
	102	Jovanka Lukić, Radivoje Pešić, Dragan Taranović NVH INVESTIGATION OF POWER STEERING SYSTEM HYDRAULIC PUMP
	103	Vojislav B. Krstić, Božidar V. Krstić, Vukić N. Lazić POSSIBILITY OF DETERMINATION THE ROUTES FOR RANSPORTATION OF HAZARDOUS GOODS ON THE BASIS OF THE RISK LEVEL
	104	Božidar V. Krstić, Vojislav B. Krstić, Ivan B. Krstić POSSIBILITIES DETERMINATION OF THE OPTIMAL STRATEGY FOR PREVENTIVE MAINTENANCE OF THE CARDAN SHIFT VEHICLE USING POLYCRITERION OPTIMIZATION
	105	Pikula Boran, Filipovic Ivan, Kepnik Goran RESEARCH OF THE EXTERNAL AERODYNAMICS OF THE VEHICLE MODEL
	106	Vladimir R. Pajković ROAD TRAFFIC SAFETY PERFORMANCE IN MONTENEGRO

17.15 : 17.30	Coffee Break	
17.30 : 19.00	107	Dobrivoje Ninkovic SURVEY OF METHODS FOR CALCULATING THE WAVE ACTION IN THE MANIFOLDS OF INTERNAL COMBUSTION ENGINES
	108	Dragan Taranovic, Radivoje Pesic, Jovanka Lukic, Aleksandar Davinic TEST BENCH FOR NON-STANDARD MEASUREMENT CHARACTERISTICS OF RECIPROCATING COMPRESSOR
	109	Branislav Aleksandrović, Rajko Radonjić, Marko Đapan, Aleksandra Janković THE RESEARCH OF CORRELATIONS BETWEEN MOTORCYCLE OSCILLATORY PROCESSES DURING THE NONSTEADY MODES OF MOTION
	110	Izudin Delić, Izet Alić TRENDS IN DEVELOPMENT OF CATALYTIC CONVERTER OF INTERNAL COMBUSTION ENGINES (ICE)
	111	Pantelija Dakić, Sreten Perić MONITORING OIL FOR LUBRICATION OF TRIBOMECHANICAL ENGINE ASSEMBLIES

ROOM 29

THURSDAY, 26. May 2011

Section E. MECHATRONICS		
TIME	NUM.	PAPER
14.00 : 15.30	112	Milan Paripović ANALYSES THE DAMAGE CAUSED BY ATMOSPHERIC DISCHARGE AND OVERVOLTAGE PROTECTION
	113	Slaviša Todorović, Miroslav Rogić AUTOMATION AND OPTIMIZATION OF PROJECT OPERATIONS IN THE BRIDGE CRANE DESIGN PROCESS
	114	Corina Daniela Cunțan, Ioan Baci, Loredana Ghiorghioni DC STABILIZER WITH DIGITAL CONTROL
	115	Marija Milićević, Vladimir Kaplarevic, Zoran Dimić, Vojkan Cvijanović, Mirko Bućan DEVELOPMENT OF DISTRIBUTED CONTROL SYSTEM FOR ROBOTS CONTROL BASED ON REAL-TIME LINUX PLATFORM
	116	Miroslav Rogić, Bojan Knežević, Branislav Ristić DEVELOPMENT OF THE CONCEPT OF INTERACTIVE EDUCATION IN MECHATRONICS
	117	Ivan B. Krstić, Božidar V. Krstić, Dragan I. Milosavljević EFFECTIVENESS DETERMINATION OF ELECTRONIC DEVICES PREVENTIVE MAINTENANCE
	118	Mihailo P. Lazarević, Vasilije Vasić, Aleš Hace, Karel Jezernik FURTHER RESULTS ON MODELING, INTEGRATED DESIGN AND SIMULATION OF A MECHATRONIC SYSTEM WITH FPGA
	119	Miroslav Grubišić, Snježana Rezić IMPACT OF SENSOR FAILURE ON WORK OF ELECTRONICALLY CONTROLLED DIESEL ENGINES
	120	Miroslav Kostadinović, Zlatko Bundalo, Dušanka Bundalo IMPLEMENTATION OF PLANTWEB ALERTS IN A DELTAV SYSTEM
	121	Vahid Bagher Poor, Majid Hashemipour IMPLEMENTATION OF RFID TECHNOLOGY AND SMART PARTS IN WIRELESS MANUFACTURING SYSTEMS
15.30 : 15.45	Coffee Break	
15.45 : 17.15	122	Tihomir Latinovic, Sorin I Deaconu, Remiquez Labudski, Marcel Topor INTELLIGENT APPROACH FOR MOBILE ROBOT SIMULATOR WITH ROBOSIM SOFTWARE
	123	Milutinovic D., Glavonjic M., Slavkovic N., Kokotovic B., Milutinovic M., Zivanovic S., Dimic Z. MACHINING ROBOT CONTROLLED AND PROGRAMMED AS A MACHINE TOOL
	124	Vladimir Kaplarević, Marija Milićević, Jelena Vidaković, Vladimir Kvrđić NEW APPROACH FOR DESIGNING ROBOT PROGRAMING SYSTEM BASED ON L-IRL PROGRAMING LANGUAGE
	125	Kostic Aleksandra, Velic Melisa, Bektesevic Jasmin PRACTICAL STRATEGIES FOR STABILISATION OF ALGORITHMS BASED ON SECULAR EQUATIONS OF RSPDTM
	126	Platon Sovilj, Nenad Čabrilo, Vladimir Vujičić, Ivan Župunski REMOTE MEASUREMENTS BY ZIGBIT WIRELESS MODULE
	127	K. Abhary, D. Djukic, H-Y. Hsu, Z. Kovacic, D. Mulcahy, S. Spuzic, F. Uzunovic SOME ASPECTS OF KNOWLEDGE ENGINEERING
	128	Nenad Miloradović, Rodoljub Vujanac, Blaža Stojanović STACKING AISLE WIDTH FOR FORKLIFT TRUCKS IN PALLETIZED STORAGE AND HANDLING SYSTEMS

	129	Mihajlo J. Stojčić, Bojan Knežević THE CONTROLLER DESIGN FOR TRACKING TRAJECTORY WITH CONTROLLED JERK
	130	Deaconu, S. I., Opreša N, Popa, G. N., Latinovic T. ULTRASONIC WELDING SYSTEM FOR AUTOMOTIVE WIRINGS INDUSTRY
	131	Dražen Pašalić, Zlatko Bundalo, Dušanka Bundalo, Miroslav Kostadinović WIRELESS SENSOR NETWORKS IN HOME AUTOMATION
	132	Mihailo Lazarević, Petar Mandić, Vasilije Vasić SOME APPLICATIONS OF NEUROARM INTERACTIVE ROBOT AND WEBOTS ROBOT SIMULATION TOOL
17.15 : 17.30	Coffee	