



LIST OF ACCEPTED PAPERS

INTRODUCTORY LECTURES

MVM2012-IL1	Giovanni Belingardi Jovan Obradovic	RECENT DEVELOPMENT IN CAR BODY LIGHTWEIGHT DESIGN - A CONTRIBUTION TOWARD GREENER ENVIRONMENT
MVM2012-IL2	Dušan Gruden	POWER UNITS FOR FUTURE - QUO VADIS?
MVM2012-IL4	Patrizio Nuccio	FUTURE PERSPECTIVES OF THE TWO-STROKE SPARK IGNITION ENGINE
MVM2012-IL5	Maria Pia Cavatorta Lidia Ghibaudo Fabrizio Sessa Stefania Spada	PROCESS ERGONOMICS OF MOTOR VEHICLES
MVM2012-IL6	Bruno Dalla Chiara Ivano Pinna	ISSUES OF SUSTAINABLE TRANSPORT

SECTION A

Power Train Technology

MVM2012-009	Zlatomir Živanović Zoran Jovanović Zoran Masoničić Željko Šakotal	THE APPLICATION OF DIFFERENT OPTIONS ALTERNATIVE FUELS BASED ON METHANE IN INTERNAL COMBUSTION ENGINES
MVM2012-013	Dragoljub Radonjić Radivoje Pešić Dragan Taranović Aleksandar Davinić	POSSIBILITIES FOR USE OF SIMULATION MODELS IN RESEARCH OF ANGULAR SPEED VARIATIONS OF IC ENGINE'S CRANK SHAFT
MVM2012-017	Aleksandar Djuric Snezana Jovanovic	CEPSTRUM ANALYSIS OF VIBRATION IN TRANSMISSION SYSTEM OF THE VEHICLE
MVM2012-019	Dejanu Marcel Dascălu Traian Popa Dinel Parlac Sebastian Salamu Gabriela	CALCULUS AND CONSTRUCTION OF A LASER PLUG
MVM2012-020	Dejanu Marcel Popa Dinel Dascălu Traian Tabacu Ion Pârlac Sebastian	EXPERIMENTAL BENCH FOR RECORDING IMAGES OF THE FLAME FRONT WHEN USING LASER PLUG IGNITION
MVM2012-022	Dobrivoje Ninković Dragan Taranović Saša Milojević Radivoje Pešić	MODELLING VALVE DYNAMICS AND FLOW IN RECIPROCATING COMPRESSORS – A SURVEY
MVM2012-023	Dobrivoje Ninković Dragan Taranović Saša Milojević	A REVIEW OF MODELS FOR PREDICTING INSTANTANEOUS HEAT EXCHANGE BETWEEN THE GAS AND CYLINDER IN RECIPROCATING

	Radivoje Pešić	COMPRESSORS
MVM2012-024	Predrag Mrđa Nenad Miljić Marko Kitanović Slobodan Popović Miroљjub Tomić	MODEL BASED APPROACH IN YAMAHA R6 FORMULA STUDENT ENGINE CONTROL PARAMETERS OPTIMISATION
MVM2012-026	Marko Kitanović Slobodan J. Popović Nenad Miljić Miroљjub Tomić Predrag Mrđa	A SIMULATION STUDY OF THE EFFECTS OF TURBO-EXPANSION CONCEPT IMPLEMENTATION ON COMBUSTION AND GAS-EXCHANGE PROCESSES OF A 1,4 L SPARK-IGNITION ENGINE
MVM2012-030	Nenad Miljić Miroљjub Tomić Slobodan J. Popović Marko Kitanović Predrag Mrđa	COMPARATIVE STUDY ON COMBUSTION FEATURES EXTRACTION METHODS IN IC ENGINES USING NEURAL NETWORKS MODELS
MVM2012-032	Slobodan Popović Miroљjub Tomić Nenad Miljić Marko Kitanović Predrag Mrđa	THE INFLUENCE OF DYNAMIC ENGINE MODEL PARAMETERS ON CRANKSHAFT INSTANTANEOUS ANGULAR SPEED – SENSITIVITY AND ERROR ANALYSIS
MVM2012-033	Jovan Dorić Nenad Raspopović Ivan Klinar	IMPROVEMENT OF TEST STAND FOR INTERNAL COMBUSTION ENGINE
MVM2012-034	Raspopović Nenad Dorić Jovan Adamović Dragan Antonić Života Klinar Ivan	ONE METHOD FOR MEASUREMENT OF BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE (BTEX) IN SPARK IGNITION ENGINE
MVM2012-039	Petrović Saša Perić Sreten Mitrović Melanija Lozanović-Šajić Jasmina	STATISTICAL ENGINE CRANKSHAFT ROTATION ANALYSIS
MVM2012-040	Gligorijević Radinko Jevtić Jeremija Borak Djuro	BIOFUELS AND BIOMASS
MVM2012-043	Breda Kegl Stanislav Pehan Marko Kegl	EMISSION CHARACTERISTICS OF A DIESEL ENGINE USING BIODIESEL PRODUCED FROM RAPESEED OIL
MVM2012-044	Željko Šakota Zlatomir Živanović Đorđe Diligenski Zoran Jovanović	INVESTIGATION OF THE POTENTIAL FUEL SAVINGS COMING FROM THE USE OF HYDRAULIC REGENERATIVE SYSTEMS IN UTILITY VEHICLES
MVM2012-045	Lozica Ivanović Danica Josifović Boris Rakić Blaža Stojanović Andreja Ilić	THE INFLUENCE OF VARIATION IN POSITION OF OUTPUT SHAFT TO LOAD ON THE CARDAN JOINT CROSS SHAFT
MVM2012-052	Elif Eker Imdat Taymaz	THE EFFECT OF OPERATION AND DESIGN PARAMETERS ON THE PERFORMANCE OF PEMFC
MVM2012-056	Catalin V. Zaharia Adrian C-tin. Clenci	RESEARCHES ON THE IMPACT OF HYPERMILING TECHNIQUES AND FUEL SAVING DEVICES IN

		ORDER TO REDUCE POLLUTION IN URBAN AREAS
MVM2012-057	Adrian Clenci Adrian Biziiac Pierre Podevin Rodica Niculescu	VARIABLE INTAKE VALVE LIFT ON A PORT FUEL INJECTED ENGINE AND ITS EFFECTS ON IDLE OPERATION
MVM2012-062	Snežana Petković Pero Dugić Omer Kovač Jadranka Vujica	EFFECTS OF BIODIESEL ON ENGINE OIL PROPERTIES
MVM2012-066	Saša Milojević Dušan Gordić Radivoje Pešić	NATURAL GAS AS A SAFE TECHNOLOGY FOR CLEAN URBAN VEHICLES
MVM2012-068	Slobodan Mišanović	EXPLOITATION AND ENVIRONMENTALLY ASPECTS OF HYBRID BUSES IN EUROPEAN CITIES
MVM2012-071	Radivoje Pešić Snežana Petković Emil Hnatko Stevan Veinović	INTERDISCIPLINARY CONTENTS OF THE PROJECT “THE MINIMUM FUEL CONSUMPTION CAR”
MVM2012-072	Aleksandar Davinić Radivoje Pešić Dragan Taranović Miroslav Ravlić	OTTO/DIESEL COMBINED ENGINE -REALIZATION AND CHARACTERISTICS

SECTION B

Vehicle Design and Manufacturing

MVM2012-001	Milan Milovanović Miroslav Demić Saša Jovanović	THE ANALYSIS OF SUBFRAME INFLUENCE ON CAR BODY BEHAVIOUR
MVM2012-004	Jovan Obradovic Emre Ertugus Giovanni Belingardi	RELEVANCE OF TUBULAR RING STRUCTURES FOR BODY-IN-WHITE LATERAL CRASH PERFORMANCE AND OCCUPANT SAFETY EVALUATION
MVM2012-011	Milan Blagojević Miroslav Živković	3D DEFORMATION MEASUREMENT OF CAR BODY PARTS BASED ON POINT CLOUD GENERATED BY OPTICAL MEASURING TECHNIQUES
MVM2012-012	Milan Blagojević Miroslav Živković Marko Topalović	REGISTRATION AND SURFACE INSPECTION OF AUTOMOTIVE PRESSED PARTS BASED ON POINT CLOUD GENERATED BY OPTICAL MEASURING TECHNIQUES
MVM2012-014	Nenad Kostic Zorica Djordjevic Mirko Blagojevic Sasa Jovanovic	STATIC ANALYSIS OF HYBRID METAL - COMPOSITE SHAFTS
MVM2012-027	Stanislav Pehan Breda Kegl	EFFICIENT RECUMBENT TRIKE DESIGN
MVM2012-041	Dragan Milosavljević Gordana Bogdanović Ljiljana Veljović Aleksandar Radaković	COMPOSITE MATERIALS IN AUTOMOTIVE ENGINEERING – MECHANICAL BEHAVIOR OF ANISOTROPIC MEDIA

MVM2012-042	Mirjana Lazić Dragan Milosavljević Ljiljana Veljović Gordana Bogdanović Aleksandar Radaković Mirjana Lazić	NONLINEAR DYNAMICS OF HEAVY GYRO ROTORS
MVM2012-046	Ionel Vieru Viorel Nicolae Danut-Gabriel Marinescu Adrian Rosescu Gheorghe Petrache	STRESS AND DEFORMATION ANALYSIS FOR THE LOWER KNUCKLE BRACKET OF FRONT SHOCK ABSORBERS
MVM2012-050	Andreja Ilić Lozica Ivanović Danica Josifović Vukić Lazić	DESIGN OF THE MOTOR VEHICLES FROM THE ASPECT OF HIGH STRENGTH STEELS APPLICATIONS
MVM2012-051	Lazar Savin Milan Tomić Mirko Simikić Laszlo Mago	TESTING OF SEAT BELT ANCHORAGE OF TRACTOR YTO 40s
MVM2012-067	Vladan Madić	AUTOMOTIVE SUPPLIER SYSTEM

SECTION C

Vehicle Dynamics and Intelligent Control Systems

MVM2012-002	Rajko Radonjić Aleksandra Janković Branislav Aleksandrović Dragoljub Radonjić	MODELING OF DRIVER BEHAVIOUR
MVM2012-005	Branka Grozdanić Djuro Borak Velimir Petrović Zlata Bracanović Slobodan Janković	A CONTRIBUTION STUDY OF SUSPENSION SYSTEM FROM THE POINT OF VEHICLE'S COMFORT
MVM2012-025	Boris Stojić Nenad Poznanović Aleksandar Poznić	STUDY OF TRACTOR TIRE VERTICAL DYNAMICS WHEN ROLLING OVER SHORTWAVELENGTH ROAD UNDULATIONS AND IMPACT OBSTACLES
MVM2012-029	Mile S. Šiljak	SAFETY AND TRAFFIC IN REAL AERODYNAMIC EFFECT LATERAL ATTRACTION OF MOTOR VEHICLES
MVM2012-031	Pikula Boran Trobradović Mirsad	CONTRIBUTION TO THE DEFINITION OF THE MOST IMPORTANT PARAMETERS FOR TIRE MODELS
MVM2012-035	Sreten Simović Aleksandra Janković Milanko Damjanović	AN ANALYSIS OF VEHICLE SEMISHAFT LOADING WHEN THE WHEEL PASSES OVER SUCCESSIVE ROAD IRREGULARITIES
MVM2012-055	Aleksandar Poznić Boris Stojić Ferenc Časnji	MAGNETORHEOLOGICAL FLUID BRAKE APPLICATION POTENTIAL FOR LIGHT VEHICLES
MVM2012-060	Branimir Milosavljević Radivoje Pešić Jovanka Lukić Saša Babić	MODERN AERODYNAMIC TECHNOLOGY ON MOTOR ROAD VEHICLES

MVM2012-061	Branimir Milosavljević Radivoje Pešić Jovanka Lukić Saša Babić	AERODYNAMIC RESISTANCE IMPACT ON MOTOR VEHICLE FUEL ECONOMY
MVM2012-069	Jasna Glišović Miroslav Demić Jovanka Lukić Danijela Miloradović	DYNAMOMETER FOR TESTING HIGH-FREQUENCY NOISE OF DISC BRAKES

SECTION D

Driver/Vehicle Interface, Information and Assistance Systems

MVM2012-015	Dragan Ružić Ferenc Časnji Nenad Poznanović	THE HUMAN MODEL FOR THE SIMULATION OF THERMAL CONDITIONS IN VEHICLE CABIN
MVM2012-058	Saša Babić Radivoje Pešić Jovanka Lukić Branimir Milosavljević	NOISE EMISSION WITH ASPECT OF VEHICLES FLEET STRUCTURE – THE CASE OF SERBIA
MVM2012-063	Valentina Golubović- Bugarski Snežana Petković	MEASUREMENT OF STATIONARY NOISE OF VEHICLES IN USE
MVM2012-064	Miroslav Demić Jovanka Lukić Danijela Miloradović Jasna Glišović	INFLUENCE OF DETERIORATION OF VIBRATION PARAMETERS ON MOTOR VEHICLE'S VIBRATION COMFORT

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Transport Challenges in Emerging Economies

MVM2012-006	Zoran Papić Svetozar Kostić Vuk Bogdanović Milan Simeunović	THE EMPIRICAL MODEL FOR DETERMINING THE LANE CHANGE DISTANCE DURING AN OVERTAKING MANEUVER
MVM2012-007	Aleksandar Kostikj Milan Kjosevski Ljupcho Kocarev	DETERMINATION OF REACTION TIME AND INTERVEHICLE SPACING AS IMPORTANT HUMAN BASED MICROSCOPIC TRAFFIC PARAMETERS IN URBAN ENVIRONMENT
MVM2012-008	Zlata Bracanović Đuro Borak Branka Grozdanić Velimir Petrović	LUMINOUS EFFICIENCY OF AGRICULTURAL TRACTORS
MVM2012-021	Perić Sreten Grkić Aleksandar Krsmanović Milan	MONITORING OF FOUR-STROKE ENGINES BY OIL ANALYSIS AND PROACTIVE MAINTENANCE
MVM2012-028	Dragoljub Radonjić Aleksandra Janković Rajko Radonjić	INFLUENCE OF INCREASE OF MODERN VEHICLES MAXIMAL SPEED AND ACCELERATION ON TRAFFIC SAFETY
MVM2012-037	Saša Brakočević Radoje Vujadinović	EXAMPLE OF IMPROVING ENERGY EFFICIENCY OF VEHICLE FLEET USING LOW BUDGETARY MEASURES
MVM2012-059	Branimir Milosavljević Radivoje Pešić Jovanka Lukić	ESTIMATION OF EXHAUST EMISSIONS FROM TRANSPORT BY TIER METHODS ON KRALJEVO

Saša Babić

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