Kragujevac, October 9th-10th, 2014

LIST OF ACCEPTED PAPERS

INTRODUCTORY LECTURES

MVM2014-IL1	Giovanni Belingardi Brunetto Martorana	RECENT RESEARCH RESULTS IN COMPOSITE MATERIALS AND ADHESIVE APPLICATIONS FOR VEHICLE LIGHTWEIGHT
MVM2014-IL2	Dušan Gruden	ENVIRONMENTAL PROTECTION IN AUTOMOTIVE INDUSTRY
MVM2014-IL3	Maria Pia Cavatorta	ERGONOMIC ANALYSIS OF MOTOR VEHICLES
MVM2014-IL4	Josip Vlahović	THE CAR IN THE YEAR 2014
MVM2014-IL5	Stojan Petrović	ACTUAL SITUATION AND FUTURE DEVELOPMENT OF VEHICLE EXHAUST EMISSION LEGISLATION IN EUROPE
MVM2014-IL6	Snežana Petković	TECHNICAL INSPECTION OF VEHICLES AND TRAFFIC SAFETY- WORLD EXPERIENCE AND THE EXPERIENCE OF THE REPUBLIC OF SRPSKA
MVM2014-IL7	Dobrivoje Ninković	TURBOCHARGING OF IC ENGINES: AN OVERVIEW OF THE HISTORY, CURRENT STATE, AND THE DEVELOPMENT TRENDS
MVM2014-IL8	Zlatomir Živanović Slobodan Mišanović	FULLY ELECTRIC BUSES ARE PROMISING TECHNOLOGY IN THE FUTURE
MVM2014-IL9	Rajko Radonjić Aleksandra Janković	MOTOR VEHICLES - EDUCATION AND RESEARCH IN SERBIA
MVM2014-IL10	Boris Antić Dalibor Pešić Milan Vujanić	PROACTIVE ROAD SAFETY MANAGEMENT REGARDING FACTOR "VEHICLE"
MVM2014-IL11	Dalibor Pešić Boris Antić Krsto Lipovac	THE IMPORTANCE OF MEASURING THE BRAKE FORCE ON THE TECHNICAL VEHICLE CONTROLS IN TERMS OF TRAFFIC SAFETY

SECTION A Transport Challenges in Emerging Economies

MVM2014-015	Svetlana Trajković Ljiljana Mihajlović	TRAFFIC MANAGEMENT
MVM2014-016	Ljiljana Mihajlović Svetlana Trajković	SUSTAINABLE DEVELOPMENT AND TRANSPORTATION
MVM2014-017	Ljiljana Mihajlović Svetlana Trajković	TRANSPORT LOGISTICS

MVM2014-018	Svetlana Trajković Ljiljana Mihajlović	EFFECT OF ENERGY AND TRANSPORTATION TO THE ENVIRONMENT MANAGEMENT
MVM2014-029	Predrag Petrović Stanislav Glumac Živojin Petrović	ROAD CRASHES SERBIAN WITH CONSEQUENCES OF THE DEATH
MVM2014-035	Branko Davidović, Miroslav Božović	THE EFFECT OF INTERMODAL TRANSPORT ON THE REDUCTION OF CO2 EMISSION
MVM2014-036	Branko Davidović Miroslav Božović Nikola Maksimović	SOLAR VEHICLES AND ROADS
MVM2014-037	Đorđe Vranješ Branimir Miletić	RESEARCH METHODS FOR INVESTIGATION OF PREDICTORS ASSOCIATED WITH USING OF THE CHILD RESTRAINT SYSTEMS IN VEHICLE
MVM2014-038	Predrag Petrović Živojin Petrović Stanislav Glumac Marija Petrović	TREND OF PRODUCTION AND SALE OF MOTOR VEHICLES IN THE WORLD
MVM2014-043	Nenad Marković Miloš Miljković Mijat Cerović	IMPROPER USE OF PROTECTIVE SYSTEMS AS A REASON FOR PASSENGERS INJURIES IN VEHICLES IN TRAFFIC ACCIDENTS
MVM2014-044	Milan Vujanić Nenad Marković Duško Pešić	IMACT OF VEHICLE TECHNICAL IRREGULARITY ON TRAFFIC ACCIDENT OCCURENCE
MVM2014-049	Duško Pešić Nenad Marković Emir Smailović	THE SIGNIFICANCE DETERMINATION OF PROPER DECELERATION OF THE VEHICLE FOR ANALYSIS OF TRAFFIC ACCIDENTS
MVM2014-057	Ivan B. Krstić Boban Bubonja Vojislav B. Krstić Božidar V. Krstić Gordana Mrdak	OPTIMIZATION THE PERIODICITY OF MANAGING OF PREVENTIVE MAINTENANCE OF TECHNICAL SYSTEMS
MVM2014-058	Vojislav B. Krstić Aleksandr T. Todić Vukić N. Lazić Ivan B. Krstić Božidar V. Krstić Ljiljana Đorđević	MATHEMATICAL MODEL FOR OPTIMAL TIME DETERMINATION FOR INTERVALS OPTIMIZATION OF UNUSED VEHICLE PARTS RESOURCES AT THEIR REPLACEMENT
MVM2014-059	Ivan B. Krstić Vojislav B. Krstić Božidar V. Krstić Vukic N. Lazić Svetlana P. Trajković	DETERMINATION OPTIMAL EFFECTIVENESS OF ELECTRONIC DEVICES PREVENTIVE MAINTENANCE
MVM2014-060	Gordana Mrdak Milos Nikolic Božidar V. Krstić	POLITICS OF TRANSITION AND DEVELOPMENT STRATEGY
MVM2014-061	Aleksandar Todić Božidar V. Krstić Dejan Čikara Tomislav Todić Ivica Čamagić	MICROSTRUCTURAL CHANGES IN THE FUNCTION TO CHANGE THE CONTENTS OF VANADIUM IN STEEL FOR MOTOR VEHICLES

SECTION B Power Train Technology

MVM2014-010	Marko Kitanović Predrag Mrđa Slobodan Popović Nenad Miljić	FUEL ECONOMY COMPARATIVE ANALYSIS OF CONVENTIONAL AND ULTRACAPACITORS-BASED, PARALLEL HYBRID ELECTRIC POWERTRAINS FOR A TRANSIT BUS
MVM2014-013	Saša Milojević Nenad Ilić	APPLICATION OF HYDROGEN AS AN ALTERNATIVE FUEL FOR PROPULSION SYSTEMS IN CITY BUSES OVERVIEW
MVM2014-019	Zoran Nikolić Zlatomir Živanović	STATE OF DEVELOPMENT AND PERSPECTIVE OF THE ELECTRIC VEHICLES
MVM2014-021	Dragoljub Radonjić Rajko Radonjić	POSSIBILITIES OF USING EMPIRICAL FORMULA FOR THE DETERMINATION OF DRIVE CHARACTERISTICS OF MODERN IC ENGINES FOR VEHICLES
MVM2014-022	Dragoljub Radonjić	ANALYSIS AND COMPARISON OF IDEAL CYCLES MODERN IC ENGINES BY USING OF THE GENERAL THERMODYNAMIC CYCLE
MVM2014-023	Milan Milovanović	ANALYSIS OF METHOD OF GAS SYSTEM INSTALLING
MVM2014-031	Vanja Šušteršič Jasna Glišović Dušan Gordić	TRENDS IN DEVELOPMENT, DESIGN AND CALCULATION OF CVT
MVM2014-040	Dejan Anđelković Srđan Jović Boris Antić	STATE, DEVELOPMENT AND PERSPECTIVES OF USING LPG FOR MOTOR VEHICLES IN REPUBLIC OF SERBIA
MVM2014-042	Predrag Mrđa Vladimir Petrović Stefan Đinić Marko Kitanović	DEVELOPMENT OF CONTINUOUSLY VARIABLE INTAKE MANIFOLD FOR FORMULA STUDENT RACING ENGINE
MVM2014-045	Slobodan Popović Nenad Miljić Marko Kitanović	EFFECTIVE APPROACH TO ANALYTICAL, ANGLE RESOLVED SIMULATION OF PISTON-CYLINDER FRICTION IN IC ENGINES
MVM2014-046	Vladimir Marjanović Marko Kitanović Slobodan Popović Nenad Miljić	A COMPARATIVE STUDY OF CONVENTIONAL AND SERIES HYBRID POWERTRAIN PERFORMANCE FOR PASSENGER CAR IN TAXI SERVICE
MVM2014-047	Nenad Miljić Slobodan Popović Marko Kitanović	ENGINE CRANKSHAFT SPEED MEASUREMENT ERROR COMPENSATION
MVM2014-053	Saša Milojević Radivoje Pešić Dragan Taranović Aleksandar Davinić	TRIBOLOGICAL OPTIMIZATION OF RECIPROCATING MACHINES ACCORDING TO IMPROVING PERFORMANCE
MVM2014-054	Radivoje Pešić Snežana Petković Emil Hnatko Stevan Veinović	DOWNSIZING INTERNAL COMBUSTION ENGINE WITH VARIABLE COMPRESSION RATIO: EFFECTS AND POTENTIALS

SECTION C Vehicle Design and Manufacturing

MVM2014-011	Lozica Ivanović Danica Josifović, Andreja Ilić Blaža Stojanović Katarina Živković	OPTIMIZATION OF CARDAN JOINT DESIGN FROM LOAD CAPASITY ASPECT
MVM2014-012	Zorica Đorđević Jovana Rašić Mirko Blagojević Miloš Matejić Nenad Petrović	TRUCK SUPPORTIVE CHASSIS STRUCTURAL STATIC ANALYSIS
MVM2014-014	Zoran Majkić	ANALYSIS OF THE INTERACTION BETWEEN THE SUPERSTRUCTURE AND CHASSIS OFF-ROAD VEHICLES
MVM2014-025	Mirko Blagojević Zorica Đorđević Miloš Matejić Nenad Kostić Nenad Petrović	DYNAMIC MODEL OF CYCLOIDAL SPEED REDUCER
MVM2014-050	Branislav Popović Dragan Milčić Miodrag Milčić	DEVELOPEMENT OF AUTOMOTIVE RADIATOR COOLING FAN
MVM2014-051	Ljiljana Veljović Vera Nikolić-Stanojević Dragan Milosavljević Gordana Bogdanović Aleksandar Radaković	A MODEL OF PLANETARY GEAR TRANSMISSION
MVM2014-052	Gordana Bogdanović Dragan Milosavljević Ljiljana Veljović Aleksandar Radaković Dragan Taranović	THE MECHANICAL BEHAVIOUR OF MATERIAL IN AUTOMOTIVE ENGINEERING REINFORCED BY STRONG FIBRES
MVM2014-055	Ana Pavlović Cristiano Fragassa Stefano De Miranda	NUMERICAL SIMULATION OF CRASH TEST FOR THE HEAVY QUADRICYCLE
MVM2014-056	Dušan Arsić Vukić Lazić Srbislav Aleksandrović Dragan Milosavljević Božidar Krstić Petar Marinković Milan Đorđević	APPLICATION OF HIGH STRENGTH STEELS TO RESPONSIBLE WELDED STRUCTURES ON MOTOR VEHICLES

SECTION D Vehicle Dynamics and Intelligent Control Systems

MVM2014-020	Branislav Aleksandrović Rajko Radonjić Dragoljub Radonjić Aleksandra Janković	CONTRIBUTION TO RESEARCH THE STABILITY OF MOTION MOTORCYCLE
MVM2014-026	Jasna Glišović Miroslav Demić Jovanka Lukić Danijela Miloradović	A CONTRIBUTION TO RESEARCH OF SOME PHYSICAL CHARACTERISTICS OF DISC BRAKES IN LABORATORY CONDITIONS
MVM2014-032	Rajko Radonjić Danijela Miloradović Dragoljub Radonjić	AN APPROACH TO VEHICLE RESEARCH
MVM2014-033	Aleksandar Poznić Danijela Miloradović	EXPERIMENTAL EVALUATION OF MAGNETORHEOLOGICAL DISK BRAKE
MVM2014-039	Boris Stojić	COMPARISON OF THE PHYSICAL AND EMPIRICAL APPROACH TO MODELLING OF QUASISTATIC ENVELOPING PROPERTIES OF THE TRACTOR TIRE
MVM2014-041	Rajko Radonjić	INVESTIGATION OF THE DRIVER - VEHICLE DYNAMICS
MVM2014-048	Vlastimir Dedović Dragan Sekulić	CONVENTIONAL AND CNG BUS STEERING RESPONSES COMPARATIVE ANALYSIS

SECTION E Driver/Vehicle Interface, Information and Assistance Systems

MVM2014-024	Dragan Ružić Boris Stojić	STRATEGIES OF IMPROVING THE AIR- CONDITIONING EFFICIENCY IN HYBRID AND ELECTRIC VEHICLES
MVM2014-030	Petar Spalević Adela Crnišanin	PREDICTING SNOWFALL IN INTERNET GIS FOR VEHICLE MANAGEMENT SYSTEM
MVM2014-034	Jovanka Lukić Slavica Mačužić Jasna Glišović Dragan Taranović	HUMAN BODY TRANSMISSIBILITY RESPONSE TO VERTICAL WHOLE BODY VIBRATION: ANTHROPOMETRICS EFFECTS – CASE STUDY SERBIA