

**The 11th International Congress
Motor Vehicles & Motors 2026
Kragujevac, Serbia
October 8th - 9th, 2026**



MVM2026 CONGRESS PROGRAMME

Thursday, October 8th, 2026

OPENING OF THE REGISTRATION OFFICE

08:30 am

Area in front of Ceremonial Hall B

OPENING CEREMONY

10:00 am to 10:30 pm

Ceremonial Hall B

Prof. Danijela Miloradović, President of the Scientific Board of the Congress

Prof. Slobodan Savić, Dean of the Faculty of Engineering of the University of Kragujevac

COFFEE BREAK

10:30 am to 11:00 am

Area behind Ceremonial Hall B

PLENARY SESSION - INTRODUCTORY LECTURES

11:00 am - 12:30 pm

Ceremonial Hall B

Aleksandar Stevanović

**TRAFFIC MANAGEMENT STARTS WITH THE CAR - WHY VEHICLE DESIGN MUST BECOME A
CORE VARIABLE IN SMART MOBILITY SOLUTIONS?**

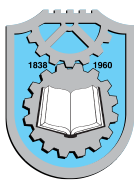
Isak Karabegović

**COLLABORATIVE ROBOTICS AND ARTIFICIAL INTELLIGENCE IN THE AUTOMOTIVE
INDUSTRY: SMART ASSEMBLY AND AUTOMATED QUALITY CONTROL**

COCKTAIL

12:30 pm to 14:00 pm

Area behind Ceremonial Hall B



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WORK IN PARALLEL SESSIONS

14:00 pm to 16:00 pm

Ceremonial Hall B / Hall B-1-12

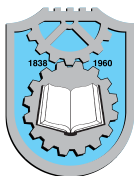
Section A - Power Train Technology

14:00 pm to 16:00 pm

Ceremonial Hall B

Chairman: prof. Radivoje Pešić

Paper number	Authors	Paper title
MVM2026-013	Krasimir Markov Hristo Stanchev	INVESTIGATION OF THE FUEL CONSUMPTION AND EMISSIONS OF A DIESEL ENGINE RUNNING ON DIESEL WITH AN ADDITIVE
MVM2026-025	Marko Lučić Mirjana Grdinić-Rakonjac Radoje Vujadinović Vladimir Pajković Ivan Grujić	ENERGY USE IN MONTENEGRO'S ROAD TRANSPORT SECTOR: TRENDS, FUEL STRUCTURE AND DEPENDENCE ON PETROLEUM-BASED FUELS
MVM2026-036	Marko Kitanović Slobodan Popović Nenad Miljić Predrag Mrđa	EFFECTIVE MIXTURE COMPOSITION IN THE ANGULAR DOMAIN IN SUPERCHARGED DISI ENGINE WITH MULTIPLE INJECTIONS
MVM2026-037	Petar Markov Radivoje Pušara Dragan Peruničić	A SINGLE-RANGE POLYNOMIAL MODEL FOR TEMPERATURE-DEPENDENT MIXTURE PROPERTIES IN COMBUSTION ENGINES WITH VARIABLE EGR RATES
MVM2026-038	Dragan Peruničić Petar Markov Radivoje Pušara	MODELING OF SPECIFIC HEAT RATIO FOR DISI ENGINES WITH COMPLEX MIXTURE FORMATION AND HIGH EGR RATES
MVM2026-041	Predrag Mrđa Slobodan Popović Nenad Miljić Marko Kitanović	EXPERIMENTAL AND CFD-BASED INVESTIGATION OF VAPOUR POCKET FORMATION IN AN INTERNAL COMBUSTION ENGINE COOLING SYSTEM
MVM2026-042	Nenad Miljić Predrag Mrđa Slobodan J. Popović	QUANTIFYING IMEP EVALUATION ERROR INDUCED BY PIEZOELECTRIC PRESSURE SENSOR AGEING IN INTERNAL COMBUSTION ENGINE INDICATION

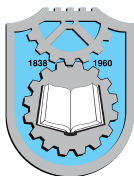


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**Section B - Vehicle Design and Manufacturing /
Section C - Vehicle Dynamics and Intelligent Control Systems
14:00 pm to 16:00 pm
Hall B-I-12
Chairman: prof. Jovanka Lukić**

Paper number	Authors	Paper title
MVM2026-012	Saša Vasiljević Jasna Glišović Slobodan Vasiljević	ANALYSIS OF EXPERIMENTAL METHODOLOGIES FOR TESTING INNOVATIVE BRAKE SOLUTIONS
MVM2026-024	Milan Simonović Dragan Adamović Đorđe Ivković Marko Simonović	ANALYSIS OF THE POSSIBILITY OF PREDICTING THE TENSILE STRENGTH OF ADVANCED STRUCTURAL STEELS USED IN THE AUTOMOTIVE INDUSTRY USING ARTIFICIAL NEURAL NETWORKS WITH DIFFERENT NUMBERS OF NEURONS IN THE HIDDEN LAYER
MVM2026-052	Dragan Čukanović Gordana Bogdanović Aleksandar Radaković Petar Knežević	APPLICATION, MODELLING AND BENDING ANALYSIS OF COMPOSITE LAMINATES IN MODERN VEHICLES
MVM2026-059	Dušan Milojević Nikola Kotorčević Đorđe Damljanović Nikola Živčević Dušan Arsić Fatima Živić	EFFECTS OF UNIT CELL GEOMETRY AND STRUT THICKNESS ON THE COMPRESSIVE BEHAVIOR OF 3D-PRINTED MECHANICAL METAMATERIALS
MVM2026-067	Luka Milić Ilija Vidović Matija Simanić Momir Drakulić Aleksandar Đurić	ADDITIVE MANUFACTURING AS A FABRICATION METHOD FOR A LIGHTWEIGHT TRACKED ROBOT PLATFORM
MVM2026-073	Milan Blagojević Milan Bojović Živče Šarkoćević	REVERSE ENGINEERING OF A COMPLETE VEHICLE FOR THE DEVELOPMENT OF A MODULAR VEHICLE PLATFORM
MVM2026-002	Aleksandar Jovanović Katarina Kukić Ana Uzelac Dušan Teodorović	DEEP Q-LEARNING ALGORITHM FOR TRAFFIC CONTROL AT A DISPLACED LEFT-TURN INTERSECTION
MVM2026-058	Nikola Gunić Hana Stefanović Milan Matijević	A NEW GENERATION OF WHEEL POSITION AND SPEED INTELLIGENT SENSORS FOR MOTOR VEHICLES
MVM2026-066	Matija Simanić Ilija Vidović Luka Milić Momir Drakulić Aleksandar Đurić	SIMULATION-BASED MOTION ANALYSIS OF A LIGHTWEIGHT TRACKED ROBOT USING WEBOTS
MVM2026-075	Branko Miličić Nikola Frlić Sekulić Miloš Mitrović Ivan Blagojević	IDENTIFICATION OF EFFECTIVE THERMO-PNEUMATIC TIRE PARAMETERS FROM REAL-WORLD ROAD TEST DATA



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COFFEE BREAK

16:00 pm to 16:30 pm

WORK IN PARALLEL SESSIONS

16:30 pm to 18:30 pm

Ceremonial Hall B / Hall B-1-12

Section D - Driver/Vehicle Interface, Information and Assistance Systems /

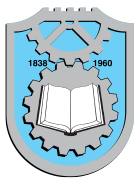
Section E - Transport Challenges in Emerging Economies

16:30 pm to 18:30 pm

Ceremonial Hall B

Chairman: Prof. Jasna Glišović

Paper number	Authors	Paper title
MVM2026-005	Slobodan Mišanović	THE INFLUENCE OF ENERGY DEMAND FOR PASSENGER COMPARTMENT CLIMATE CONTROL OF THE ENERGY EFFICIENCY OF ELECTRIC BUS
MVM2026-019	Dragan Ružić Miloš Vujković	DETERMINING THE FUEL CONSUMPTION REQUIRED FOR AIR-CONDITIONING OF A PASSENGER CAR UNDER REAL-WORLD CONDITIONS
MVM2026-020	Dragan Stojadinović Aleksandar Đurić Snežana Jovanović Miroslav Jovanović	THE INFLUENCE OF SEAT DESIGN AND SURFACE TYPE ON THE LEVEL OF VIBRATIONS EXPERIENCED BY A TRUCK DRIVER
MVM2026-074	Milan Blagojević Saša Milojević Živče Šarkoćević Ivica Čamagić Dragan Lazarević	FIAT 500L REAR IMPACT PERFORMANCE IN EURO NCAP AND IIHS ASSESSMENTS
MVM2026-033	Janez Kopač Franci Pušavec	HIGHWAY ROAD TRAPS AS HIDDEN SOURCES OF CRASH RISK
MVM2026-055	Vladimir Vukašinović Dušan Gordić Vanja Šušteršič Mladen Josijević	SUSTAINABLE BIOFUELS FOR THE DECARBONISATION OF THE TRANSPORT SECTOR IN CITIES
MVM2026-062	Goran Bošković Nebojša Jovičić Angelina Cvetanović Saša Milojević	ASSESSMENT OF THE NUMBER OF END-OF-LIFE VEHICLES IN THE REPUBLIC OF SERBIA
MVM2026-069	Saša Jovanović Zorica Đorđević Danijela Nikolić Lozica Ivanović Saša Milojević	A SAW-BASED DECISION SUPPORT MODEL FOR THE SELECTION OF NEW AND USED PASSENGER CARS



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Section C - Vehicle Dynamics and Intelligent Control Systems

16:30 pm to 18:30 pm

Hall B-I-12

Chairman: Prof. Danijela Miloradović

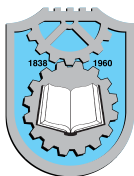
Paper number	Authors	Paper title
MVM2026-001	Miroslav Demić Mikhail P. Malinovsky Andrija Vujičić	THEORETICAL-EXPERIMENTAL APPROACH TO THE DEVELOPMENT OF A METHOD FOR IDENTIFYING THE HEAT DISSIPATION RATE OF MOTOR VEHICLE SHOCK ABSORBERS
MVM2026-014	Boris Stojić Nebojša Nikolić Luka Sekicki	A FLEXIBLE COMPUTATIONAL MODEL FOR FUEL CONSUMPTION ESTIMATION IN ARBITRARY VEHICLE DRIVING CYCLES
MVM2026-018	Dušan Opsenica Ivan Blagojević Saša Mitić	THE INFLUENCE OF ELECTRIC VEHICLE CONFIGURATION ON VEHICLE DYNAMIC CHARACTERISTICS
MVM2026-023	Snežana Petković Valentina Golubović Bugarski Jelena Adžić Milan Eremija	ANALYSIS OF PARAMETERS INFLUENCING ROAD TANKER ROLLOVER
MVM2026-028	Momir Drakulić Aleksandar Đurić Sreten Perić	SENSITIVITY ANALYSIS OF A TERRAMECHANICS MODEL OF TRACK-TERRAIN INTERACTION WITH RESPECT TO VEHICLE DESIGN PARAMETERS
MVM2026-031	Marko Simonović Dragan Adamović Đorđe Ivković Milan Simonović	SELECTION OF MATERIALS FOR FRICTION COMPONENTS OF THE BRAKE MECHANISM
MVM2026-032	Zoran Papić Nenad Saulić Milja Simeunović	PREDICTION OF EES VALUES IN VEHICLE IMPACTS USING AI
MVM2026-035	Marijana Jeremić Lazar Krstić Miloš Ivanović Mihailo Lazarević Milan Matijević	DIGITAL TWIN DESIGN FOR TORSIONAL STIFFNESS ESTIMATION IN MOTOR-LOAD OSCILLATORY SYSTEMS USING PHYSICS-INFORMED NEURAL NETWORKS
MVM2026-046	Aikaterini Zafeiri Clio Vossou Dimitrios Koulocheris	FLUID-STRUCTURE INTERACTION IN A TANK VEHICLE TRANSPORTING LIQUID FUEL

POSTER SESSION

14:00 pm to 18:30 pm

Area in front of Ceremonial Hall B

Paper number	Authors	Paper title
MVM2026-003	Ivan Grujic Aleksandar Davinic Zeljko Djuric Jovan Doric Milan Eremija Attila Kiss Sunny Narayan	THE INVESTIGATION OF THE COMBUSTION PROCESS OF THE BLEND OF THE CONVENTIONAL DIESEL FUEL AND BIODIESEL MADE FROM THE WASTE GRAPE SEEDS
MVM2026-011	Milan Eremija Ivan Grujić Danijela Miloradović Željko Đurić Svetko Milutinović Nadica Stojanović	EXPERIMENTAL ANALYSIS OF EXHAUST GAS TEMPERATURE DURING THE USE OF BIODIESEL FUEL
MVM2026-015	Milan Eremija Zoran Ristikić Svetko Milutinović Mesud Ajanović	EXPERIMENTAL INVESTIGATION OF THE INFLUENCE OF TIRE PRESSURE ON THE ROLLING RESISTANCE COEFFICIENT OF COMMERCIAL VEHICLES
MVM2026-017	Zvonko Petrović Suzana Petrović Savić Milica Tufegdžić Nikola Kostić Milena Petrović	MATHEMATICAL MODELING OF HYDRAULIC DRIVE FOR THE MITSUBISHI RV-2FRL INDUSTRIAL ROBOT: INFLUENCE OF MOMENT OF INERTIA ON SERVO VALVE RESPONSE TIME
MVM2026-034	Mihailo Đuković Saša Milojević Slobodan Savić Blaža Stojanović Horia Abaitancei	APPLICATION OF A RADIAL HYDRAULIC MOTOR IN ALTERNATIVE VEHICLE DRIVE SYSTEMS
MVM2026-035	Marijana Jeremić Lazar Krstić Miloš Ivanović Mihailo Lazarević Milan Matijević	DIGITAL TWIN DESIGN FOR TORSIONAL STIFFNESS ESTIMATION IN MOTOR-LOAD OSCILLATORY SYSTEMS USING PHYSICS-INFORMED NEURAL NETWORKS
MVM2026-044	Nadica Stojanović Ali Belhocine Ivan Grujić Željko Đurić Suzana Petrović Savić Oday I. Abdullah	THE IMPACT OF “DRUNK BUSTERS” ON THE ADEQUATE PERFORMANCE OF TASKS
MVM2026-048	Ognjen Jovanović Milan Matijević	APPLICATION OF THE TIA PORTAL ENVIRONMENT FOR SOFTWARE-IN-THE-LOOP SIMULATION OF PLC CONTROL OF A FIRST-ORDER DYNAMIC SYSTEM



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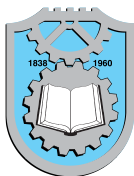
MVM2026-053	Mihajlo Jevtić Aleksandra Obradović Bogdan Todorović Nebojša Hristov Damir Jerković	FINITE ELEMENT ANALYSIS OF STRUCTURAL SUPPORT REACTIONS IN WHEELED MOBILE PLATFORM UNDER HIGH-INTENSITY IMPULSIVE LOADING
MVM2026-064	Bojana Bošković Nadica Stojanović Saša Babić Milena Petrović Anđela Egerić	PREDICTION AND TIME-SERIES ANALYSIS OF ROAD DEATHS PER MILLION INHABITANTS IN THE REPUBLIC OF SERBIA AND THE EUROPEAN UNION FOR THE PERIOD 2012 TO 2030
MVM2026-068	Mitar Mišić Stjepan Galamboš Boris Stojić Jovan Dorić Luka Sekicki	DEVELOPMENT OF AN ELECTRONIC MEASUREMENT SYSTEM FOR TURBOCHARGER WASTEGATE ACTUATOR RESPONSE-TIME TESTING
MVM2026-071	Mitar Mišić Stjepan Galamboš Jovan Dorić Boris Stojić Luka Sekicki	DESIGN AND IMPLEMENTATION OF A TEST BENCH FOR EVALUATING THE DYNAMICS OF PNEUMATIC WASTEGATE ACTUATORS

GALA DINNER

20:00 pm

Restaurant "REGENT", 24 Dimitrija Tucovića Str., Kragujevac

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MVM2026 CONGRESS PROGRAMME

Friday, October 9th, 2026

WORK IN PARALLEL SESSIONS

10:00 am to 12:00 am

Ceremonial Hall B / Hall B-1-12

Section A - Power Train Technology /

Section B - Vehicle Design and Manufacturing /

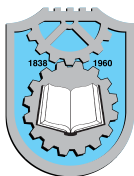
Section C - Vehicle Dynamics and Intelligent Control Systems

10:00 am to 12:00 am

Ceremonial Hall B

Chairman: Assoc. Prof. Aleksandar Davinić

Paper number	Authors	Paper title
MVM2026-030	Vladimir Kočović Živana Jovanović Pešić Miloš Pešić Jelena Đusić Dragan Džunić	TRIBOLOGICAL PERFORMANCE OF BRASS SURFACES LUBRICATED WITH NEW AND USED ENGINE OILS
MVM2026-034	Mihailo Đuković Saša Milojević Slobodan Savić Blaža Stojanović Horia Abaitancei	APPLICATION OF A RADIAL HYDRAULIC MOTOR IN ALTERNATIVE VEHICLE DRIVE SYSTEMS
MVM2026-051	Saša Milojević Marija Rafailović Michal Loman Branislav Šarkan Ján Vrábel Slobodan Savić	SAFETY AND OPERATIONAL CONSIDERATIONS FOR COMPOSITE HYDROGEN AND CNG STORAGE CYLINDERS IN VEHICLES
MVM2026-006	Gordana Bogdanović Aleksandar Radaković Dragan Čukanović Petar Knežević Aleksandar Nešović	VARIATIONAL SHEAR CONTROL IN ESL-HSDT LAMINATES FOR AUTOMOTIVE STRUCTURES

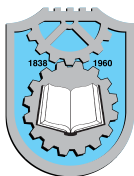


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MVM2026-007	Gordana Bogdanović Aleksandar Radaković Petar Knežević Dragan Čukanović Marko Milošević	FATIGUE ANALYSIS OF MATERIALS AND METHODS FOR CYCLE COUNTING UNDER ARBITRARY LOAD HISTORIES
MVM2026-009	Julija Boskovic Ivan Grujic Stefan Djuric Nadica Stojanovic Bogdan Zivkovic Milan Ivkovic Suzana Petrovic Savic	DEVELOPMENT OF AN EXPERIMENTAL FIVE-AXIS CNC SYSTEM USING STEPPER MOTORS
MVM2026-016	Ljubica Spasojević Zorica Djordjević Sonja Kostić Saša Jovanović	MODAL ANALYSIS OF A COMPOSITE CRANKSHAFT FOR AN INTERNAL COMBUSTION ENGINE (ICE)
MVM2026-022	Marko Delić Vesna Mandić Nada Ratković Nikola Komatina Dušan Arsić Nikola Kastratović	ANALYSIS OF THE INFLUENCE OF IMPORTANT FORMING PARAMETERS IN SHEET METAL STAMPING IN AUTOMOTIVE INDUSTRY USING FEA
MVM2026-026	Nenad Petrović Živana Jovanović Pešić Dragan Džunić Vladimir Kočović Strahinja Milenković	CREATING CURVED MESHES BY HEAT-FORMING 3D-PRINTED PARTS
MVM2026-048	Ognjen Jovanović Milan Matijević	APPLICATION OF THE TIA PORTAL ENVIRONMENT FOR SOFTWARE-IN-THE-LOOP SIMULATION OF PLC CONTROL OF A FIRST-ORDER DYNAMIC SYSTEM

Section B - Vehicle Design and Manufacturing / Section D - Driver/Vehicle Interface, Information and Assistance Systems 10:00 am to 12:00 am Hall B-I-12 Chairman: Assist. prof. Nadica Stojanović		
Paper number	Authors	Paper title
MVM2026-050	Danijela Tadić Jasna Glišović Nikola Komatina	COMPARATIVE ANALYSIS OF OBJECTIVE CRITERIA WEIGHTING METHODS FOR ELECTRIC VEHICLE EVALUATION
MVM2026-060	Nebojša Arsić Nenad Kostić Nenad Petrović Nenad Marjanović	APPLICATION OF 3D SCANNING AND CAD DEVIATION ANALYSIS AS A BASIS FOR PRESS TOOL OPTIMISATION IN THE AUTOMOTIVE INDUSTRY



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MVM2026-061	Sandra Gajević Slavica Miladinović Nikola Mitrović Zorica Djordjević Saša Milojević Blaža Stojanović	APPLICATION OF LAMINATED COMPOSITES IN THE AUTOMOTIVE, AVIATION AND MARINE INDUSTRY
MVM2026-070	Dobrivoje Čatić Vladimir Čatić	A COMBINED FTA-FMEA PROCEDURE FOR PRODUCT DEVELOPMENT
MVM2026-076	Nenad Miloradović Rodoljub Vujanac Mirjana Piskulić	WAREHOUSE SYSTEMS IN THE AUTOMOTIVE INDUSTRY: A COMPARATIVE STUDY OF STORAGE SYSTEMS, HANDLING EQUIPMENT AND SAFETY CLEARANCE
MVM2026-040	Nebojša Jovičić Angelina Cvetanović Goran Bošković	EVALUATING THE EFFICIENCY OF OPTIMIZED WASTE COLLECTION ROUTES USING DATA ENVELOPMENT ANALYSIS
MVM2026-065	Danijela Miloradović Jasna Glišović Jovanka Lukić Nadica Stojanović	CONDITIONAL SPECTRAL ANALYSIS OF VEHICLE VIBRATION DATA
MVM2026-063	Slavica Mačužić Saveljić Ognjen Matić Igor Saveljić	MACHINE LEARNING-BASED PREDICTION AND EXPLAINABILITY OF DRIVER DISCOMFORT AND FATIGUE: A DATA-DRIVEN EXTENSION OF A RAMSIS-BASED DIGITAL HUMAN MODEL STUDY
MVM2026-072	Jovanka Lukić Jasna Glišović Danijela Miloradović	COMPONENT COHERENCE-BASED ASSESSMENT OF MASKING EFFECTS IN TWO-DIRECTIONAL WHOLE-BODY VIBRATION

OFFICIAL CLOSING OF THE CONGRESS MVM2026

12:30 pm to 13:00 pm

Ceremonial Hall B