

# List of Papers to be presented at the 23<sup>rd</sup> JUMV International Automotive Conference 2011, Belgrade, 19 – 21 April 2011 (in English Language) (76)

## AutoSim – Special Session on SIMULATION IN AUTOMOTIVE TECHNOLOGY (11)

### **BLENDING THE RANS AND LES CONCEPTS FOR COMPUTING INDUSTRIAL AND ENVIRONMENTAL FLOWS: A PERSPECTIVE.**

*K.Hanjalic, Delft University of Technology, HOL / Sapienza University of Rome, ITA*

### **AERODYNAMICS AND MIXING CHARACTERISTICS OF A MODEL COMBUSTOR: A HYBRID LES/RANS STUDY**

*S. Jakirlic, Technische Universität Darmstadt, Chair of Fluid Mechanics and Aerodynamics, Darmstadt, GER*

### **TRANSIENTS IN TURBULENT FLOWS OVER COMPLEX HETEROGENEOUS URBAN AREAS AT LABORATORY SCALES**

*S. Kenjeres, Delft University of Technology, HOL*

### **NUMERICAL STUDY OF THE UNDERHOOD FLOW OF A TRUCK**

*S. Krajnovic, F. Ekeroth, A. Martinsson, Chalmers University, Department of Applied Mechanics, SWE.*

### **ADVANCED DESIGN ENVIRONMENT FOR SCREW MACHINES IN AUTOMOTIVE INDUSTRY**

*E. Mujic, A. Kovacevic, N. Stosic, I. K Smith, Centre for Positive Displacement Compressor Technology City University, London, UK*

### **SIMULATION OF NOX AND SOOT FORMATIONS IN ENGINE**

*F.S. Frolov, S. M. Frolov, V.S. Ivanov, S.N. Medvedev, P.A. Vlasov, B. Basara, M. Suffa, Semenov Institute of Chemical Physics, Moscow, RUS/AVL List GmbH, Advanced Simulation Technologies, Graz, AUT*

### **EFFECT OF ENERGETIC POWDER ADDITIVES ON FUEL DROP AUTOIGNITION AT CONDITIONS RELEVANT TO DIESEL ENGINE**

*F.S. Frolov, S. M. Frolov, Semenov Institute of Chemical Physics, Moscow, RUS*

### **OVERVIEW OF MULTIPHASE CFD APPLICATIONS IN AUTOMOTIVE INDUSTRY**

*D. Greif, V. Srinivasan, Wang, Deming, AVL List GmbH, Advanced Simulation Technologies, Maribor, SLO /AVL Powertrain Engineering Inc, Plymouth, Michigan, USA*

### **PANS vs. RANS FOR COMPUTATIONS OF THE FLOW THROUGH INTAKE ENGINE PORTS**

*B. Basara, AVL List GmbH, Advanced Simulation Technologies, Graz, AUT*

### **SELECTION OF OPTIMAL VEHICLE DESIGN ACCORDING TO THE SPECIFIC CUSTOMER REQUIREMENTS**

*Z. Sakota, Z. Zivanovic, Dj. Diligenski, Z. Jovanovic, INN Vinca Belgrade, SRB*

### **DEVELOPMENT OF NEXT GENERATION VIBRATION FATIGUE SOFTWARE AND CATIA INTEGRATION FOR AUTOMOTIVE INDUSTRY**

*J. Slavič, University of Ljubljana, SLO, T. Opara, CIMOS d.d., SLO, R. Banov, M. Dogan, CadCam GroupCroatia, M. Česnik, M. Boltežar, University of Ljubljana, SLO.*

## INVITED PAPERS (4)

### **DRIVER ASSISTANCE SYSTEMS - STATUS 2011**

*E.-C. von Glasner, EVU & Daimler AG, ret., GER, L. Palkovics, Knorr Bremse AG, HUN*

### **THE WRONG CHOICE OF TYRES INFLUENCING THE STABILITY OF VEHICLES**

*E.-C. von Glasner, EVU & Daimler AG, ret., J. Ahlgrimm, DEKRA, GER*

### **EVACUATION OF BUSES – EMERGENCY EXITS**

*M. Matolcsy, Scientific Society of Mechanical Engineers, HUN*

### **VEHICLE SAFETY PERFORMANCE INDICATORS & INDEXES**

*Č. Duboka, University of Belgrade, Faculty of Mechanical Engineering, SRB*

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V. Jivkov, V. Draganov, N. Nikolov, *Theory of Mechanisms and Machines Dept., Technical University of Sofia, BUG*

#### DESIGN AND APPLICATION OF GEAR WEAR ACCELERATED TESTING DEVICE WITH REVERSE MOTION

M. Ognjanović, *University of Belgrade, Fac. of Mech. Engrg.*, A. Pavlović, S.Čirić-Kostić, *University of Kragujevac, Fac. of Mech. Engrg., SRB*, C. Fragassa, *University of Bologna, Fac. of Mech. Engrg., ITA*

#### APPROACHES TO ASSESS THE ENERGETIC EFFICIENCY OF NEW POWERTRAIN ARCHITECTURES: DESCRIPTIONS AND EXPLOITATIONS

H. Dupont, *Continental Automotive France SAS, Toulouse, FRA*

#### DYNAMICS OF A BELT-DRIVE SYSTEM INCLUDING A DETAILED BELT-PULLEY CONTACT DESCRIPTION AND DAMPING

G. Čepon, M. Boltežar, *University of Ljubljana, Faculty of mechanical engineering, Laboratory for dynamics of machines and structures, SLO*

#### IMPACT OF CLEARANCE ON THE POWER TRANSMISSION LOAD IN THE PROCESS OF MOVEMENT OF MASSES THROUGH THE CLEARANCE

M. Damjanović, R. Durković, *Faculty of Mechanical Engineering, Podgorica, MNE*

### 5E - Engines, including Energy, Emissions, Ecology, Environment (17)

#### TWENTY YEARS OF RESEARCH ON HYDROGEN FUELLED IC ENGINES AT GHENT UNIVERSITY

S. Verhelst, J. Demuynck, J. Vancoillie, R. Sierens, *Laboratory of Transport Technology, Ghent University, BEG*

#### SIMPLIFIED PROBABILISTIC POWERTRAIN SIZING FOR HYBRID VEHICLES

M. Milačić, *Research & Advanced Engineering - Ford Motor Company, USA*

#### DIESEL PARTICULATE FILTER REGENERATION STRATEGIES: THE STUDY OF HYDROGEN ADDITION

K. Theinnoi, S.S. Gill, A. Tsolakis, *University of Birmingham*, A.P.E York, *Johnson Matthey Technology Centre, Reading*, A. Megaritis, *Brunel University*, R. Harrison, *University of Birmingham, UK*

#### TECHNOLOGIES TO MEET EVER MORE DEMANDING POWERTRAIN COOLING REQUIREMENTS

S. Čučuz, *Visteon Deutschland GmbH, Climate Control Systems, Kerpen, GER*

#### THE INFLUENCE OF THE INJECTION TIMING ON THE COMBUSTION CHARACTERISTICS AND EMISSION BEHAVIOUR IN A GASOLINE HOMOGENEOUS CHARGE COMPRESSION IGNITION (HCCI) ENGINE

R. Cosgarea, M. Aleonte, C. Cofaru, *Transylvania University of Brasov, Automotive Dept., ROM*, C. Dahnz, A. Velji, U. Spicher, *Karlsruher Institut für Technologie. Institut für Kolbenmaschinen, GER*

#### EXPERIMENTAL INVESTIGATIONS OF ALCOHOL BLENDS ON COMBUSTION AND EMISSIONS IN A TWO STROKE SI ENGINE

M. Aleonte, R. Cosgarea, C. Cofaru, *Transylvania University of Brasov, ROM*, K. BECK, A. VELJI, U. SPICHER, *Karlsruher Institut für Technologie, Institut für Kolbenmaschinen, GER*

#### EXPERIMENTAL STUDY OF EMISSION REDUCTION AND SPRAY CHARACTERISTICS FOR DIESEL COMBUSTION USING A PIEZO INJECTOR GROUP-HOLE NOZZLE

K. Sung, *Gangwon Provincial College, KOR*

#### RESEARCH OF THE ENGINE'S SPEED INFLUENCE ON THE INTAKE PROCESS OF A NATURALLY ASPIRATED ENGINE

G. Sandu, C. Cofaru, L. Jelenschi, S. Sacareanu, *Transylvania University of Brasov, Automotive Department, ROM*

#### FUZZY LOGIC AND NEURAL NETWORK BASED INDUCTION CONTROL IN A DIESEL ENGINE

K. B. Ganesh, M.S. Ramaiah *School of Advanced Studies*, R. Vanathi, *Honeywell Technologies, Bangalore, IND*

#### THE EFFECT OF BIODIESEL AND BLENDED DIESEL FUEL ON EXHAUST EMISSIONS

R. Gligorijević, J. Jevtić, Đ. Borak, *IMR-Institute, Belgrade, SRB*

#### THE NECESSITY FOR ROTATIONAL MOVEMENT OF VALVE AND TAPPET IN INTERNAL COMBUSTION ENGINES

L. Jelenschi, C. Cofaru, G. Sandu, I. S. Radu, *Transylvania University of Brasov, ROM*

#### **DIESEL – WATER EMULSION IN DIESEL ENGINES**

*M. Gheorghe, D. Scarpete, A.-M. Hotoleanu, University “Dunarea de Jos” of Galati, ROM*

#### **A HARD DECISION FOR HEV MANUFACTURERS: GASOLINE HYBRID VEHICLE OR DIESEL HYBRID VEHICLE**

*V. Croitorescu, E. Negrus, M. Oprean, C. Andreescu, Politehnica University of Bucharest, Automotive Engineering Department, ROM*

#### **DEVELOPMENT OF STRATIFIED FRACTAL COMBUSTION MODEL**

*M. Sjerić, D. Kozarac, G. Šagi, Faculty of Mechanical Engineering and Naval Architecture, Chair of IC Engines and Motor Vehicles, Zagreb, CRO*

#### **NUMERICAL SIMULATION OF POROUS MEDIUM INTERNAL COMBUSTION ENGINE**

*A. Mohammadi, M. Basharhagh, A. Jazayeri, K.N.Toosi University of technology; IRN*

#### **IMPROVING THE PROCEDURE FOR THE IMPACT TESTING OF COMPOSITE AIR-TAKE MANIFOLDS**

*C. Fragassa, DIEM, University of Bologna, ITA, A. Pavlović, Z. Šoškić, Faculty of Mechanical Engineering Kraljevo, SRB*

#### **METHODS FOR MEASURING AND VERIFICATION CONCENTRATION OF ULTRA FINE PARTICLES EMISSION FROM DIESEL ENGINE**

*V. Petrović, IMR Institute, Belgrade, SRB*

### **SAFETY (Vehicle & Traffic Safety, Vehicle Safety Performance, Road Accident Reconstruction and Analyses, Vehicle Safety Regulations) (18)**

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*Z. Hankovszki, R. Kovács, L. Palkovics, Department of Automobiles, Budapest University of Technology and Economics, HUN*

#### **CHALLENGES AND POSSIBILITIES FOR ENHANCED VEHICLE FLOW AND SAFETY ON URBAN TRAFFIC**

*A. Kostic, M. Kosevski, Faculty of Mechanical Engineering Skopje, MKD*

#### **CRUISE CONTROL STRATEGIES OF ELECTRIC BICYCLE**

*B. Pornporm, School of Mechanical Engineering, Suranaree University of Technology, Meaung, Nakorn Ratchasima, THA*

#### **DETERMINATION OF THE SEATING POSITION IN VEHICLE AND THE SAFETY BELT USAGE PRIOR TO ACCIDENT –CASE STUDY**

*I. Bodolo, Expert witness organization “Vojvodina”, SRB*

#### **ACTIVE SAFETY AT THE INTERSECTION USING INTELLIGENT ROAD INFRASTRUCTURE**

*M. Djekić, M. Derikonjić, R. Eper, D. Matković, “Selma” Ltd., V. Jovanović, JP “Subotica-trans”, Subotica, SRB*

#### **COMPARISON BETWEEN TRAFFIC STATISTICS OF THE CZECH REPUBLIC, LEBANON AND JAPAN**

*N. Khatib, V. Panáček, A. Vémola, Institute of Forensic Engineering, Brno University of Technology, Brno, CZE*

#### **MULTIBODY MODELLING OF CHARACTERISTIC PEDESTRIAN POSITIONS FOR TRAFFIC ACCIDENTS RECONSTRUCTION**

*Z. Papić, V. Bogdanović, N. Ruškić, Faculty of Technical Sciences, Novi Sad, SRB*

#### **QUANTITY ESTIMATION OF ENERGY RECOVERY DURING BRAKING MODES OF VEHICLES ON URBAN DRIVE CYCLES AND ITS IMPACT ON THEIR ELECTRIC PROPULSION SYSTEM**

*V. Jivkov, V. Draganov, N. Nikolov, Theory of Mechanisms and Machines Dept., Technical University of Sofia, BUG*

#### **APPLICATION OF COUPLED FE- AND MULTI-BODY SIMULATIONS IN THE AREA OF PEDESTRIAN AND OCCUPANT SAFETY**

*E. Ertugus, Institut für Kraftfahrzeuge RWTH Aachen University, GER, J. Obradovic, Politecnico di Torino, Department of Mechanics, ITA, L. Eckstein, Institut für Kraftfahrzeuge RWTH Aachen University, GER, G. Belingardi, Politecnico di Torino, Department of Mechanics, ITA*

#### **IMPROVEMENT OF LATERAL VEHICLE CRASHWORTHINESS BY INTRODUCING INNOVATIVE STRUCTURAL SOLUTIONS**

*J. Obradovic, Politecnico di Torino, Department of Mechanics, ITA, E. Ertugus, Institut für Kraftfahrzeuge RWTH Aachen University, GER, G. Belingardi, Politecnico di Torino, Department of Mechanics, ITA, L. Eckstein, Institut für Kraftfahrzeuge RWTH Aachen University, GER,*

#### **SIMULATION STUDY OF THE SUITABILITY OF DIFFERENT TYPES OF REFERENCE MODELS FOR USE IN VEHICLE STABILITY CONTROL SYSTEMS**

*I. Gjurkov, Faculty of Mechanical Engineering, University of “Sv. Kiril i Metodij”, Skopje, MKD*

### **IMPLEMENTATION OF QUALITY SYSTEM OF BRAKE ROLLER DYNAMOMETER MEASUREMENTS**

*M. Haataja, University of Oulu, Department of Mechanical Engineering/Automotive Engineering, FIN*

### **NEW METHOD TO COMPARE THE TIRES' LATERAL CAPABILITIES ON ROAD TESTS**

*V. Sesztakov, G. Meleg, Automotive Department, Budapest University of Technology and Economics, HUN*

### **THE ROLE OF HEAVY VEHICLES IN ROAD SAFETY: TECHNICAL IMPROVEMENTS AND TRAINING OF PROFESSIONAL DRIVERS IN EU ACTIVITIES**

*S. Amoroso, L. Caruso, Dipartimento di Ingegneria dei Trasporti, Università degli Studi di Palermo, ITA*

### **HAVE WE REDUCED THE RISK ON CELL PHONES USAGE: THE EFFECTS OF THE IMPLEMENTATION OF NEW ROAD TRAFFIC SAFETY LAW**

*S. Cicevic, M. Cubranic-Dobrodolac, Faculty of transport and traffic engineering, University of Belgrade, SRB*

### **OPTICAL MEASURING TECHNIQUES IN RECONSTRUCTION AND MODIFICATION OF VEHICLES**

*R. Tomić, Z. Lulić, P. Ilinčić, Faculty of Mechanical Engineering and Naval Architecture, Chair of IC Engines and Motor Vehicles, Zagreb, CRO*

### **PRELIMINARY DESIGN OF A MAGNETORHEOLOGICAL BRAKE FOR AUTOMOTIVE USE**

*G. V. Marannano, G. Virzi Mariotti G., DIMA - Università degli studi di Palermo ITA, Č. Duboka, Automotive Department, Faculty of Mechanical Engineering, University of Belgrade SRB.*

### **VIDEO SURVEILLANCE SYSTEM AT THE VEHICLE TECHNICAL INSPECTION STATIONS IN FEDERATION OF BOSNIA AND HERZEGOVINA AND BRČKO DISTRIKT**

*F. Klisura, IPI – Institute for Engineering in Economy, Zenica, Ž. Matoc, Federal Ministry for Transportation and Communications, Mostar, S. Jašarević, Faculty of Mechanical Engineering, Zenica, BiH*

## **ADVANCED ENGINEERING TECHNIQUES & TOOLS (15)**

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*M. Otrin, M. Boltežar, University of Ljubljana, Faculty of mechanical engineering, Laboratory for dynamics of machines and structures, SLO*

### **ARMOR WITH HYPER-ENTROPIC BEHAVIOUR AND SELF-PROTECTION**

*H. Binchiciu, SC SUDOTIM AS SRL, Timisoara, ROM, I. Voiculescu, V. Geanta, R Stefanoiu, University Politehnica of Bucharest, ROM, E. Binchiciu, SC SUDOTIM AS SRL, Timisoara, ROM*

### **EXPLORATORY RESEARCH ON THE PERFORMANCE OF SILICON-ALUMINUM ALLOYS CAST-SHAPED AND ALUMINUM-MAGNESIUM THIXOTROPIC**

*H. Binchiciu, SC SUDOTIM AS SRL, Timisoara, ROM, V. Geanta, I. Voiculescu, R Stefanoiu, University Politehnica of Bucharest, ROM, E. Binchiciu, SC SUDOTIM AS SRL, Timisoara, ROM*

### **HIGH EFFICIENCY TUBULAR WIRE FOR BRAZING**

*A. Binchiciu, H. Binchiciu, E. Binchiciu, SC SUDOTIM AS SRL, Timisoara, ROM*

### **RESEARCH ON SUSTAINABILITY AND DESIGNING OF PROTECTIVE STRUCTURES OF TRANSPORT VEHICLE FOR SMALL FARMS**

*S. Bozhkov, E. Badrikov, V. Yankova, K. Stefanov, Research Institute for Land Reclamation and Agricultural Mechanization, Sofia, BUG*

### **OPTIMIZING SEMI-ACTIVE SUSPENSION SYSTEM OF 7 DOF CAR MODEL BY USING LQR CONTROLLER**

*R. Miralami, K. N. Toosi University of Technology and Islamic Azad University, Yazd, IRN*

### **COMPENSATE OF ATTRITION AND RELEASE IN CAR ELECTRIC STEERING SYSTEM (EPS)**

*M. Morteza, K. T. Shekarabi, Automotive Company of Saipa, Tehran, M. R. Ahadiat, Islamic Azad University, Yazd, IRN*

### **DYNAMIC BEHAVIOUR OF A CAR EQUIPPED WITH MAGNETORHEOLOGICAL DAMPERS**

*G. Barbaraci, G. Virzi Mariotti, Dipartimento di Ingegneria Industriale Università di Palermo ITA*

### **STUDYING THE VEHICLE'S DYNAMICS USING ARTIFICIAL INTELLIGENCE ALGORITHMS**

*F.-C. Oloeriu, E.-D. Iliina, M. Bodonea, G. Bivol, I. Copae, Military Technical Academy, Bucharest, ROM*

### **ASPECTS REGARDING THE THEORETICAL STUDY OF HYBRID ELECTRIC VEHICLE DYNAMICS**

*E.-D. Iliina, F.-C. Oloeriu, M. Bodonea, G. Bivol, I. Copae, Military Technical Academy, Bucharest, ROM*

### **THE APPLICATION OF THE FEA IN ORDER TO EMPHASIZE THE EVOLUTION OF THE FORCES THAT APPEAR IN THE CASE OF THE PIECES IN THE FRICTION TORQUE**

*I. C. Roata, R. Iovanas, D. Iovanas, Transilvania University of Brasov, ROM*

**COMPARATIVE ANALYSIS ON MATHEMATICAL MODELS DESCRIBING VIBRATIONS OF ROAD VEHICLES WITH DIFFERENT TYPES SUSPENSIONS**

*L. Kunchev, N. Pavlov, Technical University, Sofia, BUL*

**MECHATRONICS APPLICATIONS IN HEAVY DUTY AGRICULTURAL TRACTOR AXLES**

*M. Leikes, K. Szocs, Rába Development Institute, Rába Axle Ltd., Győr, HUN*

**THERMAL AND DEFORMATION BEHAVIOR SIMULATION OF CONTACT SPOT WELDING ELECTRODES WITH ACTIVE SURFACES MODIFIED BY WELDING LOADING**

*C. G. Ceorapin-Torok, R. Iovanas, D. Iovanas, Transilvania University of Brasov – PRO-DD Institute, ROM*

**CHARACTERIZATION OF IMPACT BEHAVIOR OF COMPOSITE CAR COMPONENTS**

*A. Pavlović, Faculty of Mechanical Engineering Kraljevo, SRB, C. Fragassa, DIEM, University of Bologna, ITA, Z. Šoškić, Faculty of Mechanical Engineering Kraljevo, SRB*

**AUTOMOTIVE LOGISTICS including Vehicle Maintenance & After-Sales Support (6)**

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*K. Jakimovska, I. Gjurov, Faculty of Mechanical Engineering, Ss. "Cyril and Methodius" University in Skopje, MK*

**GLOBAL APPROACH OF CAR RECYCLING UPON LIFE CYCLE EXPIRATION**

*M. Jelić, P. Petrović, IKS Institute, Belgrade, SRB*

**TOTAL PRODUCTIVE MAINTENANCE AND OVERALL VEHICLE EFFECTIVENESS**

*A. Manojlović, O. Medar, V. Papić, University of Belgrade – Faculty of Transport and Traffic Engineering, Belgrade, SRB*

**RENEWAL OF SERBIAN BUS FLEET WITH THE OBJECTIVE OF POLLUTANTS' EMISSION REDUCTION**

*J. Trifunović, A. Manojlović, V. Momčilović, V. Papić, University of Belgrade – Faculty of Transport and Traffic Engineering, Belgrade, SRB*

**A TOOL TO ESTIMATE THE WARRANTY LEVEL ACCORDING TO DESIGN CHANGES**

*P. Alcalde, CITEAN, Pamplona, ESP*

**STUDY OF THE TECHNOLOGICAL INNOVATION IN THE PROCESS OF DESIGN AND DEVELOPMENT OF PRODUCT: APPLICATION TO THE SMES OF AUTOPARTS - COMPARATIVE CASE BETWEEN ESTADO DE MEXICO AND CATALONIA**

*A. S. León, Barcelona, ESP*

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### **UTVRĐIVANJE VISINE ŠTETE – OSIGURATELJNI I SUDSKI PRISTUP**

*D. Bralić, Croatia osiguranje d.d. Zagreb, CRO*

### **UTVRĐIVANJE VRIJEDNOSTI OSOBNIH VOZILA**

*D. Bralić, Croatia osiguranje d.d. Zagreb, CRO*

### **UTICAJ VOZILA I VOZAČA NA BEZBEDNOST SAOBRAĆAJA**

*P. Petrović, M. Jelić, IKS, Beograd, SRB*

### **NESREĆE SA VOZAČIMA TRAKTORA U JAVNOM SAOBRAĆAJU REPUBLIKE SRBIJE**

*M. V. Oljača, K. Gligorević, Poljoprivredni fakultet, Katedra za poljoprivredne mašine, Zemun, SRB*

### **RAZVOJ METODE ZA ODRŽAVANJE I POPRAVKU SISTEMA ZA UBRIZGAVANJE SAVREMENIH MOTORA**

*D. Djurica, A. Mićović, TOC, D. Ovuka, Bosch Srbija, Beograd, SRB*

### **ALTERNATIVNE METODE POPRAVKE OŠTEĆENE KAROSERIJE PUTNIČKIH AUTOMOBILA SA ASPEKTA PROCENE ŠTETE I BEZBEDNOSTI U SAOBRAĆAJU**

*V. Posavac, T. Bodolo, A. Adam, VTA Centar, Novi Sad, SRB*

### **PROVERA I ANALIZA TEHNIČKE ISPRAVNOSTI HAVARISANIH VOZILA NAKON SAOBRAĆAJNIH NEZGODA**

*M. Zikic, TF Bor, SRB*

### **ANALIZA OSCILATORNOG KOMFORA VOZAČA AUTOBUSA POMOĆU MODELA SA ŠEST STEPENI SLOBODE**

*D. Sekulić, V. Dedović, Saobraćajni fakultet, Beograd, SRB*

### **TERMODINAMIČKO RASTEREĆENJE I KINEMATSKE KARAKTERISTIKE ROTACIONOG MOTORA PROMJENLJIVE RADNE POVRŠINE – PRP (KKROMUS)**

*M. Đudurović, Savez inovatora RS, B. Vranješ, Mašinski fakultet, Banjaluka, RSR*

### **ISPITIVANJE SIGURNOSTI CRIJEVA ZA SNABDIJEVANJE GORIVOM**

*Š. Čelović, Engine Development, Volkswagen AG, Wolfsburg, GER, Dž. Tufekčić, E. Cerjaković, A. Topčić, Univerzitet u Tuzli, Mašinski fakultet, BiH*

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