University of Niš Faculty of Mechanical Engineering

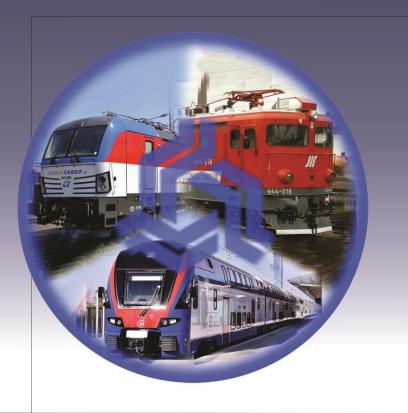


PROGRAM



SCIENTIFIC-EXPERT CONFERENCE ON RAILWAYS







- 1 Faculty of Mechanical Engineering
- 2 Downtown
- 3 Bus Station
- 4 Fortress
- 5 University of Niš

The XX Conference RAILCON '22 Faculty of Mechanical Engineering, Aleksandra Medvedeva 14, Niš, Serbia (GPS: 43°19'49.7''N+21°53'42.6''E)



The Faculty of Mechanical Engineering Niš, Serbia wishes you a pleasant welcome to the

INTERNATIONAL XX SCIENTIFIC-EXPERT CONFERENCE ON RAILWAYS - RAILCON '22

The RAILCON continues the tradition through its twentieth jubilee Conference. As in previous years, the RAILCON hopes to gather scientists and experts from the region, to observe the ongoing changes in developed railways and suggest directions for further railway development in Serbia and the region.

According to this year's Conference Program there are 59 papers written by 130 authors from Railway, University and Industry, from 12 countries, dealing with actual topics from fields of rolling stock, traffic, infrastructure, maintenance, informatics, economics, strategy and policy.

During the RAILCON '22 a specialized exhibition and marketing presentations will be organized for 12 companies from 6 countries, cofinanciers of the Conference.

We wish the participants a successful event and a pleasant stay in Niš.

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Vukašin Pavlović

Miša Tomić

Marko Perić

Damjan Rangelov

Vesna Grozdanović

Dušanka Nikolić, technical secretary

PROGRAM

THURSDAY, October 13th 2022

8³⁰ – Application of Participants (Lobby)

10⁰⁰ – 10⁴⁵ Opening Ceremony (Amphitheatre A)

10⁴⁵ – 11³⁰ Welcome Cocktail (Lobby)

11³⁰ – 13²⁰ Plenary Session (Amphitheatre A)

Chairmen:

Prof. Jovan Tanasković, Prof. Milan Banić

• INFRASTRUCTURE CONDITIONS AND COMPLIANCE WITH TEN-T STANDARDS ON THE RAIL NETWORK ON THE WESTERN BALKAN

Dejan LASICA, Kire DIMANOSKI Transport Community Permanent Secretariat, RS

- APPLICATION POSSIBILITIES OF RECUPERATED ENERGY OF MODERN RAILWAY HAULING VEHICLES Szabolcs FISCHER, Alida VASS, Szabolcs SZALAI, Dóra HARANGOZÓ, Attila NÉMETH, Zoltán MAJOR, Szabolcs KOCSIS SZÜRKE Széchenyi István University, HU
- ATUVIS AUTONOMOUS ROBOT FOR TRAIN UNDERCARRIAGE VISUAL INSPECTION
 Miloš SIMONOVIĆ, Milan BANIĆ, Aleksandar MILTENOVIĆ,
 Dušan STAMENKOVIĆ, Milena RAJIĆ, Marko PERIĆ,
 Damjan RANGELOV, Miša TOMIĆ, Vukašin PAVLOVIĆ
 University of Niš, Faculty of Mechanical Engineering, RS
- MONOGRAPH TWENTY RAILCON CONFERENCES Dušan STAMENKOVIĆ, Miroslav MIJAJLOVIĆ University of Niš, Faculty of Mechanical Engineering, RS

• THE EUROPEAN UNION AGENCY FOR RAILWAYS (ERA) - ACTIVITIES AND ROLE IN RESEARCH Gianvitorio TAVOLA, Desislava DIMITROVA, Ny Tiana TOURNIER European Union Agency for Railways, FR

 $13^{20} - 15^{30}$ Break

15³⁰ – 17⁰⁰ Session 1 - Rolling stock I (Amphitheatre B)

Chairmen:

Prof. Milan Bižić, Prof. Aleksandar Miltenović

- 1.1. DEVELOPMENT OF ELASTOMER-BASED COMPONENTS WITH INCREASED LIFETIME FOR REDUCING LCC OF RUNNING GEAR Cristian ULIANOV, Paul HYDE, Iman HAZRATI ASHTIANI Newcastle University, UK Olalla SÁNCHEZ SOBRADO Asociación De Investigación Metalúrgica Del Noroeste (AIMEN), ES
- 1.2. INFLUENCE OF WHEEL TREAD SURFACE ROUGHNESS ON THE NOISE EMITTED BY RAILBOUND FREIGHT VEHICLES Dragan MILKOVIĆ, Saša RADULOVIĆ, Goran SIMIĆ, Vojkan LUČANIN, Aleksandra KOSTIĆ University of Belgrade, Faculty of Mechanical Engineering, RS
- 1.3. ANALYTICAL CALCULATION OF HOLLOW RAILWAY AXLE IN ACCORDANCE WITH EN 13103 Milan BIŽIĆ, Dragan PETROVIĆ University of Kragujevac, Faculty of Mechanical&Civil Engineering, RS
- 1.4. EXPERIMENTAL AND NUMERICAL DETERMINATION OF THE FREIGHT WAGON BUFFERS CHARACTERISTICS Dragan MILKOVIĆ, Aleksandra KOSTIĆ, Saša RADULOVIĆ, Goran SIMIĆ, Vojkan LUČANIN University of Belgrade, Faculty of Mechanical Engineering, RS
- 1.5. TESTING OF RUNNING SAFETY OF RAILWAY VEHICLES IN ACCORDANCE WITH INTERNATIONAL STANDARDS Dragan PETROVIĆ, Milan BIŽIĆ University of Kragujevac, Faculty of Mechanical & Civil Engineering, RS

1.6. STRUCTURAL ANALYSIS OF ROBOT FOR TRAIN UNDERCARRIAGE VISUAL INSPECTION Milan BANIĆ, Marko PERIĆ, Lazar STOJANOVIĆ University of Niš, Faculty of Mechanical Engineering, RS

15³⁰ – 17⁰⁰ Session 3 / 4 Infrastructure I / Vehicle and infrastructure maintenance I (Ceremonious Room)

Chairmen:

Prof. Szabolcs Fischer, Prof. Miroslav Mijajlović

3.1. RAMS CONSIDERATIONS OF COMPUTER BASED INTERLOCKINGS DURING THEIR LIFETIME CYCLE IN PRACTICE

Dejan LUTOVAC

Signalling & Control d.o.o., RS

Ana LUTOVAC

University of Belgrade, School of Electrical Engineering, RS

3.2. APPROVAL OF COMPUTER BASED INTERLOCKINGS AND PLACE OF CONVENTIONAL SAFETY ANALYSES Dejan LUTOVAC

Signalling & Control d.o.o., RS

Ana LUTOVAC

University of Belgrade, School of Electrical Engineering, RS

3.3. PRIORITISATION OF LEVEL CROSSINGS BASED ON RISK ANALYSIS IN THE WESTERN BALKANS Kire DIMANOSKI, Dejan LASICA

Transport Community Permanent Secretariat, RS

4.1. THE TREND OF TRAIN COUPLING FAILURE ON SERBIAN RAILWAYS IN 10 YEAR PERIOD

Marija VUKŠIĆ POPOVIĆ

Belgrade Academy of Technical and Art Applied Studies, RS Jovan TANASKOVIĆ

University of Belgrade, Faculty of Mechanical Engineering, RS Zorica STARČEVIĆ, Nebojša MEĐEDOVIĆ Serbia Cargo, RS

4.2. WELDING WITHIN THE MAINTENANCE/REPARATION OF RAILWAYS IN SERBIA

Filip PEŠIĆ

Faculty of Technical Sciences, Kosovska Mitrovica, RS Miroslav MIJAJLOVIĆ

University of Niš, Faculty of Mechanical Engineering, RS

4.3. RISK ASSESSMENT OF COUPLING SYSTEM FAILURE ON TRAIN IN CURRENT MAINTENANCE SYSTEM

Marija VUKŠIĆ POPOVIĆ

Belgrade Academy of Technical and Art Applied Studies, RS

Jovan TANASKOVIĆ

University of Belgrade, Faculty of Mechanical Engineering, RS

Zorica STARČEVIĆ

Serbia Cargo, RS

17⁰⁰ – 17¹⁵ Coffee Break (Lobby)

17¹⁵ – 18⁴⁵ Session 1 / 4 Rolling stock II / Vehicle and infrastructure maintenance II (Amphitheatre B)

Chairmen:

Prof. Sanel Purgić, Prof. Miloš Milošević

- 1.7. RESEARCH OF DYNAMIC PROPERTIES OF A LIGHT ROADRAIL VEHICLE UNDER OPERATIONAL CONDITIONS Ján DIŽO, Miroslav BLATNICKÝ, Juraj GERLICI, Denis MOLNÁR, Sebastián SOLČANSKÝ University of Žilina, Faculty of Mechanical Engineering, SK
- 1.8. HOMOGRAPHY BASED DISTANCE ESTIMATION IN ATO SYSTEM

Milan PAVLOVIĆ

Academy of Applied Technical and Preschool Studies Niš, RS

Vlastimir NIKOLIĆ, Ivan ĆIRIĆ,

Nataša ZDRAVKOVIĆ, Vukašin PAVLOVIĆ

University of Niš, Faculty of Mechanical Engineering, RS

1.9. DEEP LEARNING-BASED RAIL TRACK DETECTION Marten FRANKE, Danijela RISTIĆ-DURRANT, Kai MICHELS University of Bremen, Institute of Automation, DE

- 1.10. MECHANICAL AND STRUCTURAL PROPERTIES OF MIG WELDED JOINTS OF DIFFERENT ALUMINUM ALLOYS 2024 T351/6082 T6 IN RAILWAY WAGONS Miodrag MILČIĆ, Dragan MILČIĆ, Nataša ZDRAVKOVIĆ University of Niš, Faculty of Mechanical Engineering, RS Andreja RADOVANOVIĆ, IMW Institute, RS Vladislav KRSTIĆ, University Nikola Tesla- Union Belgrade, RS
- 4.4. DEVELOPMENT OF DEVICES FOR MAINTANANCE OF **RAILWAY VEHICLES** Damjan RANGELOV, Dušan STAMENKOVIĆ, Aleksandar MILTENOVIĆ, Miloš MILOŠEVIĆ University of Niš, Faculty of Mechanical Engineering, RS
- 4.5. DIGITAL TWIN IN RAILWAY APPLICATIONS Marko PERIĆ, Aleksandar MILTENOVIĆ, Damjan RANGELOV, Milena RAJIĆ University of Niš, Faculty of Mechanical Engineering, RS

17¹⁵ – 18⁴⁵ Session 2 - Traffic and Transport I (Ceremonious Room)

Chairmen:

Prof. Predrag Jovanović, Prof. Nenad T. Pavlović

2.1. RAILWAY TIMETABLE ANALYSIS USING CRITICAL PATH **METHOD**

Predrag JOVANOVIĆ, Dragana MACURA University of Belgrade, Faculty of Transport and Traffic Engineering, RS

2.2. DEFINITION OF THE OPERATIONAL REQUIREMENTS FOR A OBSTACLE DETECTION SYSTEM ON RISK-BASED APPROACH Slobodan ROSIĆ

Infrastructure of Serbian Railways, RS Dušan STAMENKOVIĆ, Miloš SIMONOVIĆ University of Niš, Faculty of Mechanical Engineering, RS 2.3. APPLICATION OF OPENTRACK AT SALZBURG AG Andreas SCHÖBEL OpenTrack Railway Technology GmbH, AT

Stefan BALTRAM

Salzburg AG für Energie, Verkehr und Telekommunikation, AT

2.4. STATISTICAL URBAN TRAFFIC EVALUATION IN THE CITY OF CONSTANTINE: CASE OF THE ZOUAGHI SLIMANE **CROSSROADS**

Mounira KELILBA, Salim BOUKEBBAB, Rachid CHAIB Hannane YAÏCHE

Faculty of Mechanical Eng., University of the Brothers Mentouri, DZ

2.5. TELEMATICS FOR RAIL FREIGHT - CHALLENGE OF BRINGING TOGETHER NON-EU AND EU RAIL FREIGHT **INFORMATION SYSTEMS** Mickael VARGA

European Union Agency for Railways, FR

2.6. COMPARATION OF DIFFERENT RAILWAY LINE CAPACITY **CALCULATION METHODS** Milivoje ILIĆ, Predrag JOVANOVIĆ, Norbert PAVLOVIĆ

University of Belgrade, Faculty of Transport and Traffic Engineering, RS

19³⁰ Dinner Party Restaurant Crystal light (Dimitrija Tucovića 186, Niš) (GPS: 43°19'00.6"N+21°50'55.1"E)



FRIDAY, October 14th 2022

9⁰⁰ – Application of Participants (Lobby)

9¹⁵ – 11¹⁵ Session 5 - Strategy and policy I (Amphitheatre B)

Chairmen:

Prof. Branislav Bošković, Prof. Jelena Stefanović-Marinović

5.1. FUTURE TRENDS AS REQUIREMENTS IN THE EDUCATION OF RAILWAY ENGINEERS

Mirjana BUGARINOVIĆ, Jakša POPOVIĆ

University of Belgrade, Faculty of Transport and Traffic Engineering, RS

5.2. SMALL RAILWAYS CHALLENGES IN THE SINGLE EUROPEAN RAILWAY AREA

Vladimir MALČIĆ, Ratko ĐURIČIĆ

University of East Sarajevo, BA

Branislav BOŠKOVIĆ

University of Belgrade, Faculty of Transport and Traffic Engineering, RS Rade CVIJANOVIĆ

Railways of Republic of Srpska, BA

5.3. ASSESSMENT OF THE COMPETITIVENESS OF ŽRS ON THE REGIONAL RAILWAY MARKET OF THE WESTERN BALKANS Rade CVIJANOVIĆ

Railways of Republic of Srpska, BA

Branislav BOŠKOVIĆ

University of Belgrade, Faculty of Transport and Traffic Engineering, RS

Ratko ĐURIČIĆ, Vladimir MALČIĆ

University of East Sarajevo, BA

5.4. OPENING OF THE RAILWAY SERVICES MARKET IN THE REPUBLIC OF SERBIA

Lazar MOSUROVIĆ, Vida JERKOVIĆ, Branka NEDELJKOVIĆ,

Ksenija DUNJIĆ PAVLOVIĆ

Directorate for Railways, RS

5.5. DEFINITION OF STRATEGICALLY ORIENTED TRANSPORT USERS IN FREIGHT TRANSPORT AT RSR Marko PAVLOVIĆ, Zoran GAJIĆ, Snježana MIŠIĆ, Dragan ZELENKOVIĆ, Nebojša KOVAČEVIĆ Railways of Republic of Srpska, BA

5.6. COMPETITION FOR THE MARKET ON RAILWAYS –
CHALLENGES OF INTRODUCING COMPETITIVE TENDERING
FOR PUBLIC SERVICE CONTRACTS
Nikola STOJADINOVIĆ, Miloš STANOJEVIĆ
University of Belgrade, Faculty of Transport and Traffic Engineering, RS

9¹⁵ – 11¹⁵ Session 3 / 4 Infrastructure II / Vehicle and infrastructure maintenance III (Ceremonious Room)

Chairmen:

Prof. Dragutin Kostić, Assist. Prof. Miodrag Milčić

3.4. UNIVERSAL TRAIN CONTROL SYSTEM – MILE Branislav GAVRILOVIĆ Belgrade Academy of Technical and Art Applied Studies, RS Vladimir LAZAREVIĆ, Milovan BABIĆ IntPro doo, RS

3.5. TECHNICAL AND ENVIRONMENTAL ASPECTS FOR THE PURPOSE OF IMPROVING THE SAFETY LEVEL AT THE LEVEL CROSSINGS ON THE SERBIAN RAILWAYS NETWORK Tatjana SIMIĆ TAK&TRACK, RS Tatjana MIKIĆ

Institute of Transportation CIP, RS

Ivan RISTIĆ

Signalling Solutions doo, RS

Nebojša POKIMICA

Dvoper doo, RS

3.6. ACQUIRING PASSENGER TRAIN MOVEMENT INFORMATION USING CRITICAL SYSTEM'S DATA

Sanja JEVTIĆ, Marko BURSAĆ, Goran TRIČKOVIĆ

Belgrade Academy of Technical and Art Applied Studies, RS Dragan JEVTIĆ

Infrastructure of Serbian Railways, RS

3.7. APPLICATION OF INTELLIGENT AGENTS ON HIGH SPEED LINES IN RAILWAY TRAFFIC

Zoran G. PAVLOVIĆ, Veljko RADIČEVIĆ

Belgrade Academy of Technical and Art Applied Studies, RS

3.8. RAILWAY SERVICES SOLUTION IN SITUATION OF TRANSMISSION SYSTEMS' FAILURE

Sanja JEVTIĆ, Marko BURSAĆ, Miloš MILANOVIĆ

Belgrade Academy of Technical and Art Applied Studies, RS Dragan JEVTIĆ

Infrastructure of Serbian Railways, RS

4.6. RAILWAYS INFRASTRUCTURE MONITORING USING CLASSICAL COMPUTER VISION AND CONVOLUTIONAL NEURAL NETWORKS

Aleksandar PETROVIĆ, Miloš SIMONOVIĆ, Milan BANIĆ University of Niš, Faculty of Mechanical Engineering, RS Sergiu-Dan STAN

Technical University of Cluj-Napoca, RO

4.7. ANALYSIS OF DEFECTS ON RAILWAY TRACKS OF SERBIA ON THE SAMPLE OF TWO DIFFERENT LINES Filip PEŠIĆ

Faculty of Technical Sciences, Kosovska Mitrovica, RS Milica IVANOVIĆ, Gordana JOVIĆ, Dušan ĆIRIĆ

Miroslav MIJAJLOVIĆ,

University of Niš, Faculty of Mechanical Engineering, RS

4.8. IMPLEMENTATION OF THE FIRE ALARM SYSTEM INTO LOCOMOTIVES OF RAILWAY TRANSPORT AT THERMAL POWER PLANT NIKOLA TESLA

Nenad JOVANIĆ, Saša TRIVIĆ

PE EPS Branch TENT ŽT, RS

11¹⁵ – 11⁴⁵ Poster Presentation / Coffee Break (Lobby)

P.1. VIBRATION TESTING DMV 711 SYSTEM BASED ON XLP TECHNOLOGY

Srđan STOJIČIĆ, Andrea MARKUŠ, Milica RANKOVIĆ,

Marko MARIČIĆ

Belgrade Academy of Technical and Art Applied Studies, RS

P.2. BALANCING EMV 413/417 ON RAILWAYS IN THE REPUBLIC OF SERBIA

Aleksa MITIĆ, RS

Srđan STOJIČIĆ

Belgrade Academy of Technical and Art Applied Studies, RS

11⁴⁵ – 13³⁰ Session 7 - The Graduates and the Future of Railway (Amphitheatre B)

Chairmen:

Prof. Dušan Stamenković, Prof. Milan Banić

7.1. ANALYSIS OF IMPACT THE PRESSURE ON THE RAIL VEHICLES AND PASSENGER DURING MOVEMENT

Student: Angelina SAVIĆ

Mentor: Jovan TANASKOVIĆ

University of Belgrade, Faculty of Mechanical Engineering, RS

7.2. TRENDS IN THE RAILWAY TRANSPORT OF GOODS

Student: Ivana MATOVIĆ

Mentor: Branislav BOŠKOVIĆ

University of Belgrade, Faculty of Transport and Traffic Engineering, RS

7.3. DESIGN OF WINDOWS OF ROLLING STOCKS FOR THE

PASSENGER TRANSPORT

Student: Milica STJEPANOVIĆ

Mentor: Jovan TANASKOVIĆ

University of Belgrade, Faculty of Mechanical Engineering, RS

7.4. RESEARCH OF STRUCTURE OF ACCESS CHARGE FOR THE MINIMUM ACCESS PACKAGE ON EUROPEAN RAILWAYS

Student: Marija SELAKOVIĆ Mentor: Branislav BOŠKOVIĆ

University of Belgrade, Faculty of Transport and Traffic Engineering, RS

7.5. DEVELOPMENT AND ANALYSIS OF STATIC STRENGTH OF THE PINAFORE FLAPS ON THE LOW-FLOOR TRAM ON THE AVENIO PLATFORM

Student: Ana FILIPOVIĆ

Mentor: Jovan TANASKOVIĆ

University of Belgrade, Faculty of Mechanical Engineering, RS

7.6. ANALYSIS OF THE IMPACT OF RAIL TRANSPORT ON THE ENVIRONMENT THROUGH THE ASSESSMENT OF SUSTAINABLE DEVELOPMENT AND EXTERNAL COST

Student: Anica STOJIĆEVIĆ Mentor: Sanjin MILINKOVIĆ

University of Belgrade, Faculty of Transport and Traffic Engineering, RS

7.7. GEOMETRY RECONSTRUCTION AND STRENGHT ANALYSIS OF THE DOOR SUPPORT FOR THE METRO TRAIN PLATFORM "INSPIRO"

Student: Milica JOVANOVIĆ Mentor: Jovan TANASKOVIĆ

University of Belgrade, Faculty of Mechanical Engineering, RS

7.8. IMPLEMENTATION OF 3D DIMENSIONING THROUGH DESIGN OF SEAT HOLDER ON "AVENIO" TRAM

Student: Ognjen OBRADOVIĆ Mentor: Jovan TANASKOVIĆ

University of Belgrade, Faculty of Mechanical Engineering, RS

7.9. ANALYSIS OF CONSTRUCTION AND THE CONNECTION OF THE TABLE BETWEEN VIS-À-VIS SEATS

Student: Dragana PANIĆ

Mentor: Jovan TANASKOVIĆ

University of Belgrade, Faculty of Mechanical Engineering, RS

7.10. HIGH SPEED RAILWAY

Student: Nebojša RANKOVIĆ Mentor: Dušan STAMENKOVIĆ

University of Niš, Faculty of Mechanical Engineering, RS

11⁴⁵ – 13³⁰ Session 2 / 5 Traffic and Transport II / Strategy and policy II (Ceremonious Room)

Chairmen:

PD Dr. Andreas Schöbel, Prof. Aleksandar Miltenović

2.7. OPTIMIZATION OF TRAIN OPERATIONS AT PANCEVO M.S. RAILWAY STATION USING OPENTRACK Zorica MILANOVIĆ.

Belgrade Academy of Technical and Art Applied Studies, RS Jelena MIŠKOVIĆ

Infrastructure of Serbian Railways, RS

2.8. TRAFFIC SIMULATION ON THE PART OF THE RAILWAY LINE FROM PANČEVO MAIN STATION TO VRŠAC STATION AND STAMORA MORAVITA BORDER

Nataša PEJIĆ

Leget Container Transport d.o.o., RS

2.9. A MODEL FOR IMPROVING THE QUALITY OF RAILWAY TRANSPORT SERVICES BASED ON ADVANCED INTERNET Zoran G. PAVLOVIĆ, Veljko RADIČEVIĆ, Goran TRIČKOVIĆ, Miloš MILANOVIĆ

Belgrade Academy of Technical and Art Applied Studies, RS

5.7. RESTRUCTURING MODEL OF REPUBLIKA SRPSKA RAILWAYS

Siniša URUMOVIĆ, Mladen KURAVICA, Mladen BOŽIĆ, Biljana URUMOVIĆ, Gordana ILINČIĆ Railways of Republic of Srpska, BA

5.8. INFLUENCE OF SOCIO-ECONOMIC CIRCUMSTANCES ON THE CONSTRUCTION OF RAILWAYS FROM THE VASAL PRINCIPALITY TO CONTEMPORARY SERBIA Lazar MOSUROVIĆ, Branka NEDELJKOVIĆ, Jovo STELJIĆ Directorate for Railways, RS

13³⁰ Conference Closing

Conference Fee

The Registration Fees for the participants are:

• **12000 RSD** (10000 RSD + 20% VAT) or about **85 EUR** + 20% VAT

A participant with a paid registration fee is eligible for the attendance at the Conference, Proceedings, other Conference materials and Dinner Party.

The Registration fee is payable by bank transfer to the account of the Conference according to the payment instructions that can be found on the web site of the Conference and in cash at the Registration Desk during the Conference.

Application of Participants

For the purpose of successful organization of the International XX Scientific-expert Conference on Railways RAILCON '22 potential participants are asked to apply their participation on time. We suggest doing that by submitting the filled *Participation Registration Form*, which can be found on the web site of the Conference, to the e-mail address of the Conference Organizer.

Selected papers

Selected presented papers will be published in the International Journal of the University of Niš FACTA UNIVERSITATIS – Series: Mechanical Engineering which is on SCI list.

Organizing Secretariat

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