

University of Niš
Faculty of Mechanical Engineering

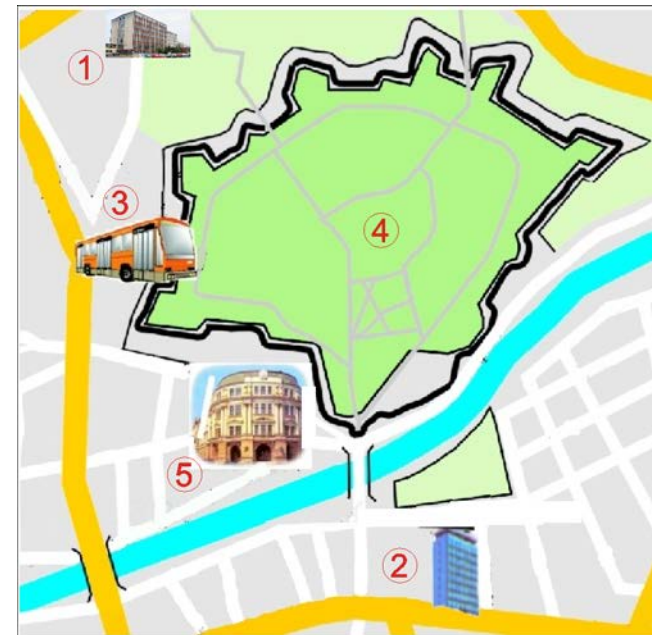


PROGRAM

XVIII SCIENTIFIC-EXPERT
CONFERENCE ON
RAILWAYS
RAILCON '18



October 11 - 12, 2018, Niš, Serbia



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

The XVIII Conference RAILCON '18
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 XVIII SCIENTIFIC-EXPERT CONFERENCE ON RAILWAYS - RAILCON '18.

The RAILCON continues the tradition through its eighteenth anniversary. 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 74 papers written by 161 authors from Railway, University and Industry, from 13 countries, dealing with actual topics from fields of rolling stock, traffic, infrastructure, maintenance, informatics, economics, strategy, policy and other aspects related to Railway.

During the RAILCON '18 a specialized exhibition and marketing presentations will be organized for 8 companies from 5 countries, co-financiers of the Conference.

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

Organizing Committee of RAILCON '18

Patron

Ministry of Education, Science and Technological Development of the Republic of Serbia

Cofinanciers

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OPEN TRACK
DRAGON MARITIME SEE

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Prof. Miloš Milošević, Presid., Faculty of Mechanical Engineering Niš, RS
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Prof. Dragomir Mandić, Faculty of Transport and Traffic Eng. Belgrade, RS
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Andrea Mazzone, PhD, Bombardier Transportation, CH
Prof. Dragan Milčić, Faculty of Mechanical Engineering Niš, RS
Rešad Nuhodžić, PhD, Ministry of Sustainable Development & Tourism, ME
Prof. Nenad T. Pavlović, Faculty of Mechanical Engineering Niš, RS
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Prof. Dušan Stamenković, Faculty of Mechanical Engineering Niš, RS
Sanja Šolić, PhD, Center for Track Systems, HR
Prof. Kiril Velkov, TU Sofia, BG

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Vukašin Pavlović
Srđan Mladenović
Dušanka Nikolić
Vesna Grozdanović

PROGRAM

THURSDAY, October, 11 2018

8³⁰ – *Application of Participants*
(Lobby)

10⁰⁰ – 10⁴⁵ *Opening Ceremony*
(Amphitheatre A)

10⁴⁵ – 11³⁰ *Welcome Cocktail*
(Lobby)

11³⁰ – 12⁴⁵ *Plenary Session*
(Amphitheatre A)

Chairmen:

Prof. Ljiljana Radović, Prof. Miloš Milošević

- INNOVATION IN LOCOMOTIVES
Andrea MAZZONE
Bombardier Transportation, Zürich, Switzerland
- SMART: A NOVEL ON-BOARD INTEGRATED MULTI-SENSOR LONG-RANGE OBSTACLE DETECTION SYSTEM FOR RAILWAYS
Danijela RISTIĆ-DURRANT, Muhammad ABDUL HASEEB
Institute of Automation, University of Bremen, Germany
Milan BANIĆ, Dušan STAMENKOVIĆ, Miloš SIMONOVIĆ,
Ivan ĆIRIĆ, Vlastimir NIKOLIĆ
Faculty of Mechanical Engineering, Niš, Serbia
Dragan NIKOLIĆ, Dušan RADOVANOVIĆ
Harder Digital Sova, Niš, Serbia
- CHALLENGES OF CONTINUED SERBIAN RAILWAY RESTRUCTURING PROCESS
Branislav BOŠKOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia

12⁴⁵ – 13³⁰ *Commercial Presentations*
(Amphitheatre A)

- Institute Mihajlo Pupin
- HaslerRail AG
- ALTPRO

13³⁰ – 16⁰⁰ *Break*

16⁰⁰ – 17³⁰ *Session 1 - Rolling stock*
(Amphitheatre B)

Chairmen:

Prof. Vojkan Lučanin, Prof. Milan Banić

- 1.1. COMPARATIVE ANALYSIS OF FATIGUE STRENGTH OF AN Y25LS-K BOGIE FRAME BY METHODS OF UIC AND DVS 1612
Svetoslav SLAVCHEV, Vladislav MAZNICHKI, Valeri STOILOV,
Stanislav ENEV, Sanel PURGIĆ
TU Sofia, Sofia, Bulgaria
- 1.2. ASSESMENT OF THE FATIGUE BEHAVIOR OF REPAIRED ALUMINIUM CARBODY STRUCTURE
Goran SIMIĆ, Dragan MILKOVIĆ, Vojkan LUČANIN,
Jovan TANASKOVIĆ, Milan POZNANOVIĆ
Faculty of Mechanical Engineering, Belgrade, Serbia
- 1.3. IMPROVING OF ABSORPTION POWER OF TUBE COLLISION ENERGY ABSORBER BY USING POLYURETHANE FOAM
Jovan TANASKOVIĆ, Aleksandra MITROVIĆ,
Vojkan LUČANIN, Zarko MIŠKOVIĆ
Faculty of Mechanical Engineering, Belgrade, Serbia
- 1.4. CORRAIL®1000 – AN OPTICAL SENSOR FOR CONTACTLESS AND SLIP FREE SPEED MEASUREMENT FOR RAIL VEHICLES
Samuel DIETIKER, Thorsten SCHREINER
HaslerRail AG, Berne, Switzerland
- 1.5. LIGHTWEIGHT DESIGN OF HIGH SIDED OPEN FREIGHT WAGON SERIES Eamno
Milan BANIĆ, Aleksandar MILTENOVIĆ,
Faculty of Mechanical Engineering, Niš, Serbia
Sanel PURGIĆ, Svetoslav SLAVCHEV, Vladislav MAZNICHKI
TU Sofia, Sofia, Bulgaria

- 1.6. COMPARISON OF BRAKE PERFORMANCES OF FREIGHT WAGONS WITH CLASSIC BRAKE AND COMPACT FREIGHT CAR BRAKE
Saša RADULOVIĆ, Dragan MILKOVIĆ, Goran SIMIĆ
Faculty of Mechanical Engineering, Belgrade, Serbia
Marija VUKŠIĆ POPOVIĆ
High Railway School of Vocational Studies, Belgrade, Serbia
- 1.7. POWER MEASUREMENT OF TRACTION VEHICLES BASED ON SMART SENSORS
Nenad JEVTIĆ, Marija MALNAR, Dragutin KOSTIĆ,
Petar MARKOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia

16⁰⁰ – 17³⁰ Session 5 – Strategy and policy
(Ceremonious Room)

Chairmen:

Prof. Dragomir Mandić, Prof. Branislav Bošković

- 5.1. REPLACEMENT OF SHORT-HAUL FLIGHTS BY TRAINS - REQUIREMENTS FOR AIRPORT TRAINS
Bernhard RÜGER
Vienna University of Technology & St. Pölten University of Applied Sciences, Austria
Christian ALBL, ÖBB-Holdung, Wien, Austria
- 5.2. RISK ANALYSIS OF INVESTMENT PROJECTS IN SERBIA RAILWAY TRANSPORT
Vasko VASSILEV
Todor Kableshkov University of Transport, Sofia, Bulgaria
Predrag JOVANOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia
- 5.3. DEVELOPMENT OF COTIF'S TECHNICAL UNIFORM RULES FOR THE INTERNATIONAL OPERATION OF RAILWAY VEHICLES
Bas LEERMAKERS, Dragan NEŠIĆ
OTIF Secretariat, Bern, Switzerland
- 5.4. COMPETITION OF CORRIDOR X AND CORRIDOR IV – GAME THEORY APPROACH
Miroslav PROKIĆ, Branislav BOŠKOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia
- 5.5. HOW TO RECONCILE ENERGY REGULATION AND TRACTION CURRENT SETTLEMENT SYSTEM IN SERBIAN RAILWAY SECTOR
Miloš STANOJEVIĆ, Mirjana BUGARINOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia

- 5.6. DO TECHNOLOGICAL ADVANCES AND RAILWAY MARKET COMPETITIVENESS GO HAND BY HAND – DISCUSSION OF SERBIAN RAILWAYS
Jakša POPOVIĆ, ASV export-import LLC, Belgrade, Serbia
Mirjana BUGARINOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia
- 5.7. PERFORMANCE ASSESSMENT OF THE ŽRS ROLLING STOCK STRUCTURE IN CHANGED CONDITIONS OF TRANSPORT MARKET
Rade CVIJANOVIĆ, Rade BLAGOJEVIĆ
Railways of Republic of Srpska, Doboj, Republic of Srpska, BIH
Vladimir MALČIĆ, Ratko ĐURIČIĆ
Traffic College Doboj, East Sarajevo University, Republic of Srpska, BIH
- 5.8. ERTMS DEPLOYMENT ACROSS EUROPE: STATE OF PLAY, MAIN CHALLENGES AND FUTURE PLANS
Jasmina STANIŠIĆ, Nikola RISTIĆ, Bojan VOZAR
DB Engineering & Consulting, Belgrade, Serbia
- 5.9. DIGITALISATION OF THE RAILWAYS, WHERE ARE WE NOW?
Bojan VOZAR, Nikola RISTIĆ, Jasmina STANIŠIĆ
DB Engineering & Consulting, Belgrade, Serbia

17³⁰ – 17⁴⁵ Coffee Break
(Lobby)

17⁴⁵ – 19¹⁵ Session 3
Infrastructure
(Amphitheatre B)

Chairmen:

Prof. Zdenka Popović, Prof. Miroslav Mijajlović

- 3.1. ACCESSIBLE RAILWAY PLATFORMS – CZECH AND SERBIAN DESIGN EXPERIENCE AND RECOMMENDATIONS
Zdenka POPOVIĆ, Luka LAZAREVIĆ
Faculty of Civil Engineering, Belgrade, Serbia
Jaroslav MATUŠKA,
Faculty of Transport Engineering, Pardubice, Czech Republic
- 3.2. PASSENGER DISTRIBUTION ON THE PLATFORM - IMPACT ON DWELL TIME
Bernhard RÜGER
Vienna University of Technology & St. Pölten University of Applied Sciences, Austria

- 3.3. TRACK ALIGNMENT PARAMETERS ON MODERN RAILWAY LINES FOR MIXED TRAFFIC
Luka LAZAREVIĆ, Zdenka POPOVIĆ,
Milica VILOTIJEVIĆ, Nikola MIRKOVIĆ
Faculty of Civil Engineering, Belgrade, Serbia
- 3.4. THE TECHNICAL METHODS FOR BUILDING OF SOFIA METROPOLITAN
Stoyna KOSTOVA
Todor Kableshkov University of Transport, Sofia, Bulgaria
- 3.5. ELECTRONIC INTERLOCKING
Dejan LUTOVAC
Signalling & Control, Belgrade, Serbia
Tatjana LUTOVAC
School of Electrical Engineering, University of Belgrade, Serbia
- 3.6. ELECTRONIC HMI COMMAND TABLE FOR MEASURING POINT MACHINE FORCES
Dejan LUTOVAC, Signalling & Control, Belgrade, Serbia
Tatjana LUTOVAC
School of Electrical Engineering, University of Belgrade, Serbia
- 3.7. LOCATION OPTIMALITY EVALUATION OF TRACK RADIO STATIONS IN SERBIAN RAILWAY NETWORK
Nenad PETROVIĆ, Damir ZABORSKI, Goran DIMIĆ, Ivan KOKIĆ
Institute Mihajlo Pupin, Belgrade, Serbia

- 2.3. QUALITY AND SAFETY MANAGEMENT SYSTEMS OF TIMETABLE IN RAILWAY TRAFFIC
Dražen KAUŽLJAR, HŽ Infrastruktura, Zagreb, Croatia
- 2.4. QUALITY OF RAILWAY PASSENGER SERVICE IN SERBIA
Zorica MILANOVIĆ, Goran TRIČKOVIĆ
High Railway School of Vocational Studies, Belgrade, Serbia
- 2.5. DETERMINATION OF SUBURBAN TRAIN TURNAROUND LOCATION IN PANCEVO RAILWAY JUNCTION USING OPENTRACK
Zorica MILANOVIĆ, Dušan VUJOVIĆ
High Railway School of Vocational Studies, Belgrade, Serbia
- 2.6. APPLICATION OF FUZZY TOPSIS METHOD FOR SELECTION THE ADDITIONAL PROTECTING SYSTEM ON RAILWAY CROSSING
Milan MILOSAVLJEVIĆ, Sandra KASALICA, Dušan JEREMIĆ
High Railway School of Vocational Studies, Belgrade, Serbia
Goran VIL, JKP Gradsko saobraćajno preduzeće „Beograd“, Belgrade, Serbia
- 2.7. IMPACT OF THE GLOBAL MARITIME CONTAINER TRANSPORT ON RAIL TRAFFIC IN EUROPE
Klaus Jurgen UHL, Tatjana MIRKOVIĆ
MC Mobility Consultants GMBH, Vienna, Austria
- 2.8. A DECISION SUPPORT SYSTEM FOR INTERMODAL FREIGHT TRANSPORT CHOICE BASED ON MS EXCEL :ROAD-RAIL
Teodor BEROV
Todor Kableshkov University of Transport, Sofia, Bulgaria

17⁴⁵ – 19¹⁵ Session 2 - Traffic and Transport
(Ceremonious Room)

Chairmen:

Prof. Nebojša Bojović, Prof. Dragutin Kostić

- 2.1. LOCATION OF STATION CAN INFLUENCE THE SUSTAINABILITY OF HIGH SPEED RAIL
Inara WATSON, Amer ALLI, Ali BAYYATI
School of the Built Environment and Architecture, LSBU, London, UK
- 2.2. KRONECKER ALGEBRA FOR OPTIMIZATION OF RAIL TRAFFIC FLOW ON ZAGREB – RIJEKA LINE
Andreas SCHÖBEL, Christian SCHÖBEL
OpenTrack Railway Technology, Wien, Austria
Stefan MARK, Austrian Institute of Technology, Wien, Austria
Hans BLIEBERGER, Vienna University of Technology, Wien, Austria

20⁰⁰ Dinner Party

(Restaurant *Crystal light*)

(Dimitrija Tucovića 186, Niš)

(GPS: 43°19'00.6"N+21°50'55.1"E)



FRIDAY October, 12 2018

**9⁰⁰ – Application of Participants
(Lobby)**

**9¹⁵ – 10⁴⁵ Session 7
The young and the future of Railway
(Amphitheatre B)**

Chairmen:

Prof. Dušan Stamenković, Prof. Miloš Milošević

- 7.1. HOW TO MANAGE PUBLIC SERVICE OBLIGATION CONTRACTS**
Student: Uroš STANIMIROVIĆ
Mentor: Branislav BOŠKOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia
- 7.2. COMPARATIVE ANALYSIS OF THE TRACTION CURRENT ACCESS CHARGES**
Student: Miloš STANOJEVIĆ
Mentor: Branislav BOŠKOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia
- 7.3. CONDITION MONITORING OF RAILWAY TRACK**
Student: Snežana MATIĆ
Mentor: Dušan STAMENKOVIĆ
Faculty of Mechanical Engineering, Niš, Serbia
- 7.4. DEVELOPMENT OF NEW RAILWAY TECHNOLOGIES ACCORDING TO RESEARCH IN THE PROGRAM "S2R - SHIFT 2 RAIL"**
Student: Aleksandar FILIPOVIĆ
Mentor: Branislav BOŠKOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia
- 7.5. TAXONOMY OF NEW TRANSPORT TECHNOLOGIES OF IMPORTANCE FOR THE DEVELOPMENT OF RAILWAY**
Student: Teodora MILENKOVIĆ
Mentor: Branislav BOŠKOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia
- 7.6. INNOVATION IN TECHNOLOGIES OF TRANSPORT OF GOODS**
Student: Stefan STANKOVIĆ
Mentor: Branislav BOŠKOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia

**9¹⁵ – 10⁴⁵ Session 6 - Other Railway aspects
(Ceremonious Room)**

Chairmen:

Privatdozent Andreas Schöbel, Prof. Kiril Velkov

- 6.1. STRUCTURAL GAUGE REPRESENTED AS A BIM MODEL**
Darja ŠEMROV
University of Ljubljana, Slovenia
Leon LEBAN
CGS Labs, Ljubljana, Slovenia
- 6.2. DEFINING THE PARAMETERS FOR SAFETY MANAGEMENT IN TRANSPORT OF DANGEROUS GOODS BY RAIL**
Dragutin JOVANOVIĆ
Faculty for Traffic, Communications and Logistics, Budva, Montenegro
Zoran RIBARIĆ
Pan-European University Apeiron, Banja Luka, Republic of Srpska, BiH
Predrag VUJOVIĆ, Jasmin HODŽIĆ
Railway infrastructure of Montenegro, Podgorica, Montenegro
- 6.3. SOFTWARE MODULE FOR VISUALISATION AND PLANNING OF MARSHALLING YARD OPERATIONS**
Nikola VITKOVIĆ, Miloš SIMONOVIĆ,
Aleksandar MILTENOVIĆ, Milan TRIFUNOVIĆ
Faculty of Mechanical Engineering, Niš, Serbia
- 6.4. ANALYSIS OF THE DRIVER BEHAVIOR AT PROTECTED RAILWAY CROSSINGS**
Sandra KASALICA, Goran TRIČKOVIĆ, Dušan VUJOVIĆ
High railway school of vocational studies, Belgrade, Serbia
Saša TRIVIĆ
JP „Elektroprivreda Srbije“, TENT Belgrade – Obrenovac, Serbia
- 6.5. ANALYSIS OF THE LOAD OF THE RAILWAY LIFTING PLATFORM**
Jovan PAVLOVIĆ, Dragoslav JANOŠEVIĆ, Vesna JOVANOVIĆ
Faculty of Mechanical Engineering, Niš, Serbia
- 6.6. ADHESIVE BONDING OF RAILWAY VEHICLES AND PARTS**
Nataša ZDRAVKOVIĆ, Boban ANĐELKOVIĆ, Dragan MILČIĆ,
Miodrag MILČIĆ, Vukašin PAVLOVIĆ
Faculty of Mechanical Engineering, Niš, Serbia

6.7. OPTIMAL MACHINE LEARNING FOR PERCEPTION MODULES OF AUTONOMOUS SYSTEMS

Emina PETROVIĆ, Miloš SIMONOVIĆ,
Vlastimir NIKOLIĆ, Ivan ĆIRIĆ
Faculty of Mechanical Engineering, Niš, Serbia

**10⁴⁵ – 11¹⁵ Poster Presentation / Coffee Break
(Lobby)**

P.1. INVESTIGATION OF THE INTERACTION BETWEEN TRAM WHEELS AND THE ROAD WHEN PASSING THROUGH A CROSSING AT A RIGHT ANGLE

Emil M. MIHAYLOV, Dobrinka ATMADZHOVA, Emil IONTCHEV
Todor Kableshkov University of Transport, Sofia, Bulgaria

P.2. METHODS FOR DETERMINATION OF RESIDUAL STRESS IN RAIL

Nikola MIRKOVIĆ, Ljiljana BRAJOVIĆ, Miodrag MALOVIĆ
Faculty of Civil Engineering, Belgrade, Serbia

P.3. METHODOLOGY FOR STATISTICAL ANALYSIS OF SQUAT RAIL DEFECTS

Milica VILOTIJEVIĆ, Ljiljana BRAJOVIĆ
Faculty of Civil Engineering, Belgrade, Serbia
Andrey P. PUSTOVGAR
Moscow State University of Civil Engineering, Moscow, Russia

P.4. ANALYSIS OF THE FACTORS INFLUENCING THE EFFICIENCY OF PASSENGER RAILWAY TRANSPORT IN BULGARIA

Oleg KRASSTEV, Kiril VELKOV
TU Sofia, Sofia, Bulgaria
Borislav ARNAUDOV, Tashko MINKOV
University of National and World Economy – Sofia, Bulgaria
Ivan PETROV, Todor Kableshkov University of Transport, Sofia, Bulgaria

P.5. EVALUATION OF THE PLACE OF RAILWAY TRANSPORT IN THE PROVISION OF TRANSPORT SERVICES IN BULGARIA

Oleg KRASSTEV, Kiril VELKOV
TU Sofia, Sofia, Bulgaria
Borislav ARNAUDOV, Tashko MINKOV
University of National and World Economy, Sofia, Bulgaria
Ivan PETROV, Todor Kableshkov University of Transport, Sofia, Bulgaria

P.6. NR/CSM/WOOD FLOUR POLYMER COMPOSITES IN RAILWAY INDUSTRY

Gordana MARKOVIĆ, Tigar, Pirot, Serbia
Vojislav JOVANOVIĆ, Suzana SAMARDŽIJA JOVANOVIĆ
Faculty of Natural Science and Math., Priština (K. Mitrovica), Serbia
Milena MARINOVIC-CINCOVIĆ
Institute of Nuclear Science Vinča, Belgrade, Serbia

P.7. SAFETY AND ECONOMIC RISKS DURING THE LIFECYCLE OF RAILWAY VEHICLES

Karel SELLNER, Daniela VYSLOUŽILOVÁ
Faculty of Mechanical Engineering, Jan Evangelista Purkyně University, Ústí nad Labem, Czech Republic

P.8. THE ROLE OF HUMAN RESOURCES IN THE IMPLEMENTATION OF THE INVESTMENT POLICY IN THE RAILWAY INFRASTRUCTURE

Mira ZAFIROVA
Todor Kableshkov University of Transport, Sofia, Bulgaria

P.9. THE RIGHT TO EDUCATION OF RAILWAY WORKERS IN THE REPUBLIC OF SERBIA WITH SPECIAL REVIEW ON ENGINEER

Aleksandar BLAGOJEVIĆ
Srbija Voz AD, Novi Sad, Serbia

**11¹⁵ – 13⁰⁰ Session 4
Vehicle and infrastructure maintenance
(Amphitheatre B)**

Chairmen:

Prof. Boban Anđelković, Prof. Aleksandar Miltenović

4.1. STATIONARY AND ON-BOARD DIAGNOSTICS FOR RAILWAY VEHICLES

Dušan ĆIRIĆ, Dusan STAMENKOVIĆ, Jelena MIHAJLOVIĆ
Faculty of Mechanical Engineering, Niš, Serbia

4.2. BREAKING OF COUPLING OF TRAINS ON THE SERBIAN RAILWAYS

Marija VUKŠIĆ POPOVIĆ
High Railway School of Vocational Studies, Belgrade, Serbia
Saša RADULOVIĆ
Faculty of Mechanical Engineering, Belgrade, Serbia

- 4.3. CURRENT SITUATION CONCERNING RAILWAY MAINTENANCE REGULATIONS IN THE COUNTRIES OF THE FORMER YUGOSLAVIA
Tatjana SIMIĆ
TAK&TRACK Beograd, Belgrade, Serbia
- 4.4. CONDITION MONITORING TECHNOLOGIES IN RAILWAY MAINTENANCE
Dusan STAMENKOVIĆ, Milan BANIĆ, Miloš MILOŠEVIĆ
Faculty of Mechanical Engineering, Niš, Serbia
- 4.5. TESTING OF RAILWAY DISTRIBUTOR VALVE WITH TEST BENCH TYPE DISTRIESTER 1018TR
Erđinč RAKIPOVSKI, JSP Skopje, Skopje, Macedonia
Zoran MOMČILOVIĆ, Rail Lab, Serbia
Nikola BRĐOVIĆ, Nictronix, Serbia
Mladen DUNJIĆ, Mladen Electronic, Serbia
- 4.6. DETERMINATION OF OPTIMAL LOCATIONS OF STRAIN GAUGES ON INSTRUMENTED WHEELSETS
Milan BIŽIĆ, Dragan PETROVIĆ
Faculty of Mechanical and Civil Engineering in Kraljevo, University of Kragujevac, Serbia
- 4.7. VISUAL MONITORING SYSTEMS IN AUTOMOBILES AND TRAINS: A COMPARISON
Vukašin PAVLOVIĆ, Miloš MILOŠEVIĆ, Jovana SPASIĆ, Nataša ZDRAVKOVIĆ, Nevena TOMIĆ
Faculty of Mechanical Engineering, Niš, Serbia
- 4.8. NIGHT VISION BASED SYSTEM FOR ATO OBSTACLE DETECTION
Milan PAVLOVIĆ
College of Applied Technical Sciences, Niš, Serbia
Ivan ĆIRIĆ, Vlastimir NIKOLIĆ, Emina PETROVIĆ
Faculty of Mechanical Engineering, Niš, Serbia
Dušan RADOVANOVIĆ, Harder Digital Sova, Niš, Serbia

11¹⁵ – 13⁰⁰ Session 1 / 3 / 4 / 6 (Presentations in Serbian)
(Ceremonious Room)

Chairmen:

Prof. Dobrinka Atmadzova, Prof. Dragan Petrović

- 1.8. TRANSFORMING ANALYTICAL AND ANALOG DEPENDENCIES OF CRITERIA AGAINST DERAILMENT OF DIFFERENT CLASSES
Dobrinka ATMADZOVA
Todor Kableshev University of Transport, Sofia, Bulgaria
- 3.8. REDUNDANCY OF THE NEW GENERATION OF RAILWAY SIGNALLING SAFETY DEVICES AS BASIS FOR ACHIEVING THE NECESSARY SAFETY
Dejan TOŠIĆ, Milan POPOVIĆ,
Directorate for Railways, Belgrade, Serbia
Vladimir HABUŠ, Zagreb, Croatia
Mirjana DŽUDOVIĆ, Serbian Railways Infrastructure, Belgrade, Serbia
- 3.9. TRANSMISSION POSSIBILITIES IN RAILWAY DATA NETWORK TODAY
Sanja JEVTIĆ
High Railway School of Vocational Studies, Belgrade, Serbia
Dragan JEVTIĆ, Serbian Railways Infrastructure, Belgrade, Serbia
Milesa SREĆKOVIĆ, Faculty of Electrical Engineering, Belgrade, Serbia
Ana ILIĆ, Institute for Transportation CIP, Belgrade, Serbia
- 3.10. UNIVERSAL RAILWAY LED MODULE LL-000
Nenad ANTONIĆ, Ivan KOKIĆ, Bojan KOSIĆ
Marko NIKOLIĆ, Željko STOJKOVIĆ
Institute Mihajlo Pupin, Belgrade, Serbia
- 3.11. TRANSFORMATION OF PETROVARADIN-BEOČIN RAILWAY TRACK INTO A GREENWAY
Ljiljana MILIĆ MARKOVIĆ
University of Banja Luka, BIH
Ljubo MARKOVIĆ
Faculty of Technical Sciences Priština (K. Mitrovica), Serbia
- 4.9. ANALYSIS OF THE KINETICAL BEHAVIOUR OF THE AXLE ASSEMBLY IN THE RAILWAY VEHICLES
Vladimir BLANUŠA, Branko MILISAVLJEVIĆ
The Higher Technical School, Novi Sad, Serbia
Milan ZELJKOVIĆ, Aleksandar ŽIVKOVIĆ
Faculty of Technical Sciences, Novi Sad, Serbia

4.10. ANALYSIS OF METHODS FOR DETERMINING OF IMPACT FORCES AT CROSSING OF WHEEL OVER RAIL IRREGULARITIES

Vladimir SINDJELIĆ, Milan BIŽIĆ, Dragan PETROVIĆ
Faculty of Mechanical and Civil Engineering in Kraljevo,
University of Kragujevac, Serbia

6.8. MODEL OF TRANSPORT RISK ASSESSMENT DUE TO DERAILMENT

Mirko DELOŠEVIĆ, Goran TEPIĆ
Faculty of Technical Science, Novi Sad, Serbia

6.9. OVERVIEW OF MODER SAFETY REGULATION CONCEPT CABLEWAYS

Nataša CERVIĆ, Olja ILIĆ
Directorate for Railways, Belgrade, Serbia
Branislav BOŠKOVIĆ
Faculty of Transport and Traffic Engineering, Belgrade, Serbia

6.10. COLLISIONS OF RAILWAY CABLES ON NIS-PRESEVO RAILROAD AND E75 HIGHWAY IN INFRASTRUCTURE IN GRDELICA GORGE

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13⁰⁰ *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 XVIII Scientific-expert Conference on Railways RAILCON '18 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 Clarivate Analytics ESCI list, and **Machine Design** published by University of Novi Sad.

Organizing Secretariat

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