

NEW HORIZONS 2023



IX International Symposium

NEW HORIZONS 2023

of transport and communications

24-25 November

University of East Sarajevo
Faculty of Transport and Traffic Engineering



PROGRAM



www.novihorizonti.sf.ues.rs.ba

ORGANIZER**Faculty of Transport and Traffic Engineering Doboj, University of East Sarajevo****CO-ORGANIZERS**

- Faculty of Transport and Traffic Engineering, University of Belgrade;
- Faculty of Technical Sciences, University of Novi Sad,
- Faculty of Technical Sciences Bitola, University of St. Kliment Ohridski
- Faculty of Traffic and Communications, University of Sarajevo
- Faculty of Technical Sciences in Kosovska Mitrovica, University of Pristina

PROGRAM COMMITTEE*Alphabetically:*

Jiří AMBROS	Transport Research Centre, Czechia
Boris ANTIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Nebojša ARSIĆ	University of Pristina, Faculty of Technical Sciences in Kosovska Mitrovica, Serbia
Ibrahim Ahmed BADI	University of Misurata, Department of Mechanical Engineering, Libya
Milan BANIĆ	University of Niš, Faculty of Mechanical Engineering, Serbia
Milorad BANJANIN	University of Novi Sad, Faculty of Technical Sciences, Serbia
Ivan BELOŠEVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Vuk BOGDANOVIĆ	University of Novi Sad, Faculty of Technical Sciences, Serbia
Nebojša BOJOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Branislav BOŠKOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Ranko BOŽIČKOVIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Mirjana BUGARINOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Alem ČOLAKOVIĆ	University of Sarajevo, Faculty of Traffic and Communications, Bosnia and Herzegovina
Zoran ĆURGUZ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Slavko ĐURIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Tihomir ĐURIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Ratko ĐURIČIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Hamed FAZLOLLAHTABAR	University of Science and Technology Babol, Department of Industrial Engineering, Iran
Draženko GLAVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Miloš IVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Dragoslav JANOŠEVIĆ	University of Niš, Faculty of Mechanical Engineering, Serbia
Goran JAUŠEVAC	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Gordana JOTANOVIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Dragan JOVANOVIĆ	University of Novi Sad, Faculty of Technical Sciences, Serbia
Predrag JOVANOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia

Jadranka JOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Pavle KECMAN	Allianz, The Netherlands
Amel KOSOVAC	University of Sarajevo, Faculty of Traffic and Communications, Bosnia and Herzegovina
Miroslav KOSTADINović	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Nikola KRSTANOSKI	University of St. Kliment Ohridski, Faculty of Technical Sciences Bitola, Macedonia
Krsto LIPOVAC	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Bojan MARIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Dejan MARKOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Goran MARKOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Peter MARTON	University of Žilina, Faculty of Management Science and Informatics, Slovakia
Boško MATOVIĆ	University of Montenegro, Faculty of Mechanical Engineering, Montenegro
Aleksandar MIĆOVIĆ	University of Priština, Faculty of Technical Sciences in Kosovska Mitrovica
Suzana MILADIĆ TEŠIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Sanjin MILINKOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Miloš MILOŠEVIĆ	University of Niš, Faculty of Mechanical Engineering, Serbia
Milan MILOTIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Petar MIROSAVLJEVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Dušan MLADENOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Snežana MLADENOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Markos PAPAGEORGIOU	Technical University of Crete, School of Production Engineering and Management, Greece
Norbert PAVLOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Dragan PERAKOVIĆ	University of Zagreb, Faculty of Transport and Traffic Sciences, Croatia
Dalibor PEŠIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Goran PETROVIĆ	University of Niš, Faculty of Mechanical Engineering, Serbia
Miloš PLJAKIĆ	University of Priština, Faculty of Technical Sciences, Kosovska Mitrovica, Serbia
Đorđe POPOVIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Aleksandar RIKALOVIĆ	University of Novi Sad, Faculty of Technical Sciences, Serbia
Andreas SCHÖBEL	Vienna University of Technology, Institute of Transportation, Austria
Marko SLAVULJ	University of Zagreb, Faculty of Transport and Traffic Sciences, Croatia
Siniša SREMAC	University of Novi Sad, Faculty of Technical Sciences, Serbia
Dušan STAMENKOVIĆ	University of Niš, Faculty of Mechanical Engineering, Serbia
Aleksandar STEVANOVIĆ	University of Pittsburgh, Civil and Environmental Engineering, SAD
Aleksandar STJEPANOVIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj
Mirko STOJČIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj
Gordan STOJIĆ	University of Novi Sad, Faculty of Technical Sciences, Serbia

Marko SUBOTIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Marko ŠEVROVIĆ	University of Zagreb, Faculty of Transport and Traffic Sciences, Croatia
Snežana TADIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Ilija TANACKOV	University of Novi Sad, Faculty of Technical Sciences, Serbia
Slaven TICA	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Marko VASILJEVIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Slavko VESKOVIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
Milan VUJANIĆ	Adriatic University Bar, Faculty of Traffic, Communications and Logistics Budva, Montenegro
Jianhong WU	Beijing Jiaotong University, School of Economics and Management, China
George YANNIS	National Technical University of Athens, Greece
Milan ZLATKOVIĆ	University of Wyoming, Department of Civil and Architectural Engineering, SAD

LOCATION



Kneza Lazara 2, 74000 Doboj, Republic of Srpska, Bosnia and Herzegovina



**Faculty of Transport and Traffic Engineering Doboj, University of East Sarajevo
Vojvode Mišića 52, 74000 Doboj, Republic of Srpska, Bosnia and Herzegovina**

CONFERENCE PROGRAM – 24th November 2023**Hotel Park Doboj**

09.00-11.00	PARTICIPANT REGISTRATION
11.00-11.30	OPENING OF THE CONFERENCE - WELCOME SPEECH
11.30-13.00	PLENARY SESSION
1.	ROAD PAVEMENT CONSTRUCTION TECHNOLOGY TAKING INTO ACCOUNT THE COMPOSITION OF THE ASPHALT GRANULOCONCRETE MIXTURE Konstantin Andrianov, Anatoliy Zubkov, Tambov State Technical University, Department "Town planning and roads"
2.	CAPACITY BUILDING IN HIGHER EDUCATION IN THE FIELD OF TRANSPORTATION OF A DANGEROUS GOODS IN THE WESTERN BALKAN COUNTRIES – DGTRANS ERASMUS+ Aleksandra Petrović, University of Priština, Faculty of Technical Sciences in Kosovska Mitrovica, Department of Traffic and Transport
3.	RAILWAY STATIONS: CAPACITY & PERFORMANCE ASSESSMENT OF TRACK LAYOUTS Ivan Belošević, University of Belgrade, Faculty of Transport and Traffic Engineering, Vojvode Stepe 305, Belgrade 11000, Serbia
13.00-13.30	CONFERENCE SPONSORS
13.30-14.00	BREAK

PARALLEL SESSIONS

14.00-15.30	SESSION 1 - Hall 1
1.	THE METHOD OF THE RESEARCH LOOP OF TELETRAFFIC IN THE STRUCTURE OF THE SYSTEM OF PUBLIC URBAN PASSENGER TRANSPORT Milorad Banjanin, University of East Sarajevo, Faculty of Philosophy Pale, Bosnia and Herzegovina Radenka Bjelošević, Mirko Stojčić, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina Milan Vasiljević, Aleksandar Đukić, Bosnia and Herzegovina
2.	PREMIUM ROAD MARKINGS: ONE TIME HIGHER EXPENSE FOR LOWER OVERALL COST Tomasz E. Burghardt, Swarovski GmbH, Wipark, 14. Straße 11, 3363 Neufurth, Austria Anton Pashkevich, Politechnika Krakowska, ul. Warszawska 24, 31-155 Kraków, Poland
3.	SEIZURE OF VEHICLES AS A PROTECTIVE MEASURE AGAINST MULTIPLE TRAFFIC OFFENDERS Goran Bošnjak, Bosnia and Herzegovina Milan Salamadija, Ministry of Internal Affairs of the Republic of Srpska, Banja Luka, Bosnia and Herzegovina

4.	APPLICATION OF INFRASTRUCTURE SAFETY MANAGEMENT WITH SPECIAL ATTENTION TO THE M10 ROAD IN MONTENEGRO Vladimir Ilić, Milanko Damjanović, Radoje Vujadinović, Boško Matović, <i>University of Montenegro, Faculty of Mechanical Engineering, Podgorica, Montenegro</i> Dragan Jovanović, <i>University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia</i>
5.	IMPORTANCE OF ECO-DRIVING AND DIFFERENCE IT MAKES IN FUEL CONSUMPTION Manvydas Bagavičius, <i>Šiauliai State University of Applied Sciences, Faculty of Business and Technologies, Lecturer of Transport Engineering Department, Aušros ave. 40, Šiauliai, LT-76241, Lithuania</i>
6.	TEMPORAL ANALYSIS OF TRAFFIC ACCIDENTS WITH PEDESTRIANS IN KRAGUJEVAC Veselinka Jokić, Miloš Pljakić, <i>University of Priština, Faculty of Technical Sciences in Kosovska Mitrovica, Serbia</i>
7.	IMPROVING THE EFFICIENCY OF LOCAL COMMUNITY VEHICLE FLEETS Pavle Gladović, Božo Ilić, <i>Rico training centre, Belgrade, Serbia</i> Vesko Lukovac, <i>University of Defence, Military Academy, Belgrade, Serbia</i> Vladimir Popović, <i>Academy of Technical-Educational Vocational Studies, Niš, Serbia</i>
8.	PROBLEMS AND PROPOSED SOLUTIONS FOR THE PLANNING OF PUBLIC TRANSPORT IN BITOLA Vaska Atanasova, Marija Stojanoska, Nikola Krstanoski, <i>University of St. Kliment Ohridski, Faculty of Technical Sciences, Bitola, Macedonia</i>
9.	MODEL FOR RESEARCH AND ANALYSIS OF TRAFFIC SAFETY CONDITIONS FOR TRACTOR DRIVERS IN THE REPUBLIC OF SERBIA Đorđe Vranješ, Zdravko Tarlać, <i>Institute BIT, Novi Banovci, Serbia</i> Bojan Marić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Dobož, Bosnia and Herzegovina</i> Goran Tričković, <i>Academy of Technical and Art Applied Studies Belgrade, Department of School of Railway Transport, Belgrade, Serbia</i>
15.30-16.00	BREAK
14.00-15.30	SESSION 2 – Hall 2
1.	IMPACT OF THE IMPLEMENTATION OF DIGITAL AUTOMATIC COUPLING ON WORKING CONDITIONS OF SHUNTING STAFF Adrian Wagner, Fabián Figueroa Valle, Frank Michelberger, <i>Carl Ritter von Ghega Institut – St. Pölten University of Applied Sciences, Campus – Platz 1, St. Pölten, 3100, Austria</i>
2.	ASSEMENT OF TERMINAL STATIONS OPERATION: AN INTEGRATED METHODOLOGY Gabriele Malavasi, Stefano Ricci, <i>Sapienza università di Roma, DICEA, Development & Innovation in Transport Systems, Via Eudossiana 18, 00184, Roma, IT</i>
3.	RAIL FACTOR AND ITS PERCEPTION IN SMALLER REGIONS – LOVOSICE CASE STUDY Stanislav Metelka, Vít Janoš, <i>CTU in Prague, Faculty of Transportation Sciences, Department of Logistics and Management of Transport, Horská 3, Praha 2, 128 03, Czechia</i>
4.	NON - CONTACT MEASURMENT OF TRACK GEOMETRY PARAMETERS Mladen Žarković, Lazar Mosurović, Jovo Steljić, Filip Šćekić, <i>Directorate for Railways,</i>

	<i>Belgrade, Serbia</i> Željko Mitrović , <i>Infrastructure of Serbian Railway, Belgrade, Serbia</i>
5.	A SUSTAINABLE ALTERNATIVE FOR RAILROAD NOISE BARRIER Hirut Grossberger, Lukas Stock, Frank Michelberger , <i>Carl Ritter von Ghega Institute for Integrated Mobility Research, University of Applied Sciences St. Poelten, 3100 Austria</i> Andrea Jandl – Rieger , <i>Institute of History of Art, Building Archaeology and Restoration, Technical University of Vienna, A-1040, Austria</i>
6.	BUILDING A COMMUNITY OF RAILWAY SCIENTIFIC RESEARCHERS AND ACADEMIA Peter Márton , <i>University of Žilina, Univerzitná 8215/1, Žilina, 01026, Slovakia</i> Armando Carrillo Zanuy , <i>EURNEX e.V. Eurnex Rail Research Network of Excellence, Hardenbergstrasse 12, Berlin, 10623, Germany</i>
7.	FUZZY-FMEA APPROACH FOR RISK ANALYSIS OF SWITCH ELEMENTS Milivoje Ilić, Norbert Pavlović, Ivan Belošević , <i>University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade 11000, Serbia</i>
8.	ENERGETIC COMPARISON OF LOCAL FREIGHT SERVICE WITH DUAL-SOURCE VEHICLES Martin Chýle , <i>CTU in Prague, Faculty of Transportation Sciences, Horská 3, 121 00 Prague</i>
9.	SAFETY OF PASSENGERS ON PLATFORMS IN RAILWAY STATIONS AND STOPS Zdenka Popović, Luka Lazarević , <i>University of Belgrade, Faculty of Civil Engineering, Belgrade, Serbia</i> Jaroslav Matuška , <i>University of Pardubice, Faculty of Transport Engineering, Pardubice, Czech Republic</i>
15.30-16.00	BREAK
16.00-17.30	SESSION 1 – Hall 1
1.	IMPROPER AND INSUFFICIENT COMPLIANCE WITH THE REGULATIONS AND RULES IN ROAD TRAFFIC AND THE IMPACT OF THAT FAILURE ON THE SAFETY OF TRAFFIC PARTICIPANTS Dragana Agić, Muhamed Barut, Fuad Klisura, Mustafić Ibrahim , <i>Institute for Economic Engineering LLC, Zenica, Bosnia and Herzegovina</i>
2	HOW TO IMPROVE THE PASSIVE SAFETY OF ROADS? Demeter Prislan , <i>ICC DEMETER PRISLAN S.P., Dobravica 44, 1292 Ig, Slovenija</i>
3.	INVESTIGATION OF THE INFLUENCE OF PASSENGER VEHICLE TIRES ON BRAKING EFFICIENCY Darius Astrauskas , <i>Šiauliai State University of Applied Sciences, Faculty of Business and Technologies, Lecturer of Transport Engineering Department, Aušros ave. 40, LT-76241 Šiauliai, Lithuania</i>
4.	BL BUSTRACKER: A DISTRIBUTED SYSTEM FOR BUS TRACKING Drazen Brdjanin, Danijela Banjac, Filip Stojakovic , <i>University of Banja Luka, Faculty of Electrical Engineering, Banja Luka, Bosnia and Herzegovina</i> Dragan Jovic , <i>Bravo Systems LLC, Banja Luka, Bosnia and Herzegovina</i> Aleksandar Bosancic , <i>A-Solution Aleksandar Bosančić SP, Prijedor, Bosnia and Herzegovina</i>
5.	EXPERIMENTAL INVESTIGATION OF OPTIMAL FLEXIBLE PAVEMENT MODELS FROM GRAINED ASPHALT COMPONENTS OF USED PAVEMENT

	Edis Softić, Elvir Jusić , <i>University of Bihać, Technical Faculty, Bihać, Bosnia and Herzegovina</i>
	Marko Subotić, Željko Stević , <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina</i>
6.	<p>IMPACT ANALYSIS TECHNICAL CONDITION OF VEHICLES ON ROAD SAFETY</p> <p>Vojislav Krstić, Aleksandar Mićović, <i>University of Priština, Faculty of Technical Sciences in Kosovska Mitrovica, Serbia</i></p> <p>Bojan Marić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina</i></p> <p>Radoje Jovanović, <i>Road Traffic Safety Agency, Belgrade, Serbia</i></p>
7.	<p>ROAD MOTOR VEHICLE FIRES AND IMPACTS ON THE ENVIRONMENT</p> <p>Dragiša Đorđić, <i>Independent University of Banja Luka, Faculty of Ecology, Banja Luka, Republika Srpska, Bosnia and Herzegovina</i></p> <p>Slavko Đurić, Milan Milotić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina</i></p> <p>Džana Dubinović, <i>Bosnia and Herzegovina</i></p>
8.	<p>DYNAMICS OF EXECUTION OF EVENTS IN THE PROCESS STRUCTURES OF THE TRAFFIC INSPECTION</p> <p>Aleksandar Đukić, Milan Vasiljević, <i>Bosnia and Herzegovina</i></p> <p>Milorad Banjanin, <i>University of East Sarajevo, Faculty of Philosophy Pale, Bosnia and Herzegovina</i></p> <p>Radenka Bjelošević, Mirko Stojčić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina</i></p>
9.	<p>MODELING THE DISTRIBUTION OF DANGEROUS AIR-POLLUTANTS AND IT SUPPORT IN TRAFFIC ACCIDENTS</p> <p>Venezija S. Ilijazi, <i>University Metropolitan, Belgrade, Serbia</i></p> <p>Jelena S. Lamovec, Stevo K. Jaćimovski, <i>University of Criminal Investigation and Police Studies, Zemun, Belgrade, Serbia</i></p> <p>Jovan P. Šetrajčić, <i>Academy of Sciences and Arts of the Republic of Srpska, Banja Luka, Bosnia and Herzegovina</i></p>
16.00-17.30	SESSION 2 – Hall 2
1.	<p>MODEL OF REGULATION OF THE RAILWAY TRANSPORT MARKET IN BOSNIA AND HERZEGOVINA</p> <p>Ratko Đuričić, Vladimir Malčić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina</i></p> <p>Nermin Čabrić, <i>University of Sarajevo, Faculty of Traffic and Communications Sarajevo, Bosnia and Herzegovina</i></p> <p>Danijela Despotović, <i>University of Business Academy, Novi Sad, Serbia</i></p>
2.	<p>THE RELATIONSHIP OF THE EFFICIENCY INDEX OF EUROPEAN RAILWAYS AND THE QUALITY OF THE RAILWAY INFRASTRUCTURE</p> <p>Drago Pupavac, <i>Polytechnic of Rijeka, Rijeka, Croatia</i></p>
3.	<p>RAIL TRAFFIC SAFETY BASED ON ADVANCED INTERNET TECHNOLOGIES</p> <p>Zoran G. Pavlović, Veljko Radičević, Marko Bursać, Miloš Milanović, Nevena Veljović, <i>Academy of Technical and Art Applied Studies Belgrade, Department of School of Railway Transport, Belgrade, Serbia</i></p>

4.	<p>IDENTIFICATION OF CRITERIA FOR RESILIENCE ASSESSMENT OF THE PUBLIC RAILWAY OPERATOR IN OPEN RAILWAY MARKET CONDITIONS</p> <p>Tihomir Subotić, <i>Bosnia and Herzegovina</i> Branislav Bošković, <i>University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia</i></p>
5.	<p>REVIEW TO THE STRUCTURE OF TRACK ACCESS CHARGES FOR SMALL RAILWAY NETWORKS</p> <p>Vladimir Malčić, Ratko Đuričić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Dobož, Bosnia and Herzegovina</i> Branislav Bošković, Mirjana Bugarinović, <i>University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia</i></p>
6.	<p>THE INFLUENCE OF CALL CENTER ON LOGISTICS PROCESSES</p> <p>Amel Kosovac, Adisa Medić, <i>University of Sarajevo, Faculty of Traffic and Communications Sarajevo, Sarajevo, Bosnia and Herzegovina</i> Elvedin Hasanović, <i>BIHAMK Assistance LLC, Sarajevo, Bosnia and Herzegovina</i></p>
7.	<p>IMPLEMENTATION AND POSSIBILITIES OF BUILDING CITY LOGISTICS IN THE AREA OF THE CITY MUNICIPALITIES OF THE CITY OF SARAJEVO</p> <p>Amel Kosovac, Adisa Medić, <i>University of Sarajevo, Faculty of Traffic and Communications Sarajevo, Sarajevo, Bosnia and Herzegovina</i> Elvedin Hasanović, <i>BIHAMK Assistance LLC, Sarajevo, Bosnia and Herzegovina</i></p>
8.	<p>CROSS – DOCKING CONCEPT IN INTERMODAL TRANSPORTATION</p> <p>Mladen Krstić, Snežana Tadić, Slobodan Zečević, <i>University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia</i> Biljana Micić, <i>Bosnia and Herzegovina</i></p>
9.	<p>RELOCATION LOGISTICS: FLOWS, STAKEHOLDERS AND SERVICES</p> <p>Snežana Tadić, Miloš Veljović, Veljko Vidojević, Mladen Krstić, Slobodan Zečević, <i>University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia</i></p>
19.00	DINNER

CONFERENCE PROGRAM – 25th November 2023

**Faculty of Transport
and Traffic
Engineering Doboј**



PARALLEL SESSIONS

09.00-10.30	SESSION 1 – Hall 1
1.	<p>THE IMPORTANCE OF DRIVER FATIGUE MANAGEMENT IN TRANSPORT COMPANIES</p> <p>Jelica Davidović, Dalibor Pešić, Boris Antić, <i>University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia</i></p>
2.	<p>ANALYSIS OF PARENT'S INFLUENCE ON CHILDREN'S BEHAVIOR IN TRAFFIC</p> <p>Boris Antić, <i>University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia</i></p> <p>Vojislav Krstić, Aleksandar Mićović, <i>University of Priština, Faculty of Technical Sciences in Kosovska Mitrovica, Kosovska Mitrovica, Serbia</i></p> <p>Dragan Stanimirović, <i>Ministry of Transport and Communications of Republika Srpska, Banja Luka, Bosnia and Herzegovina</i></p> <p>Mesud Ajanović, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboј, Doboј, Bosnia and Herzegovina</i></p>
3.	<p>VEHICLE FLOW AS A CRITERION FOR THE IMPLEMENTATION OF LIGHT SIGNALING</p> <p>Bojana Ristić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboј, Doboј, Bosnia and Herzegovina</i></p>
4.	<p>LEGAL BASIS AND REGULATIONS FOR THE IMPLEMENTATION OF ROAD WORK ZONES IN THE REPUBLIC OF SERBIA</p> <p>Dalibor Pešić, <i>University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia</i></p> <p>Aleksandra Obradović, <i>Beograd, Serbia</i></p>
5.	<p>VIDEO SURVEILLANCE FOR AUTOMATIC NUMBER PLATE RECOGNITION AND DETECTION OF TRAFFIC VIOLATIONS AND COORDINATED OPERATION OF TRAFFIC LIGHTS IN SPEED REDUCTION MEASURES AS AN IDENTIFIABLE FACTOR IN THE CAUSE OF A TRAFFIC ACCIDENT</p> <p>Miroslav Derikonjić, Đorđe Fazekaš, Bogdan Radin, <i>Company "Selma" Subotica, Serbia</i></p>
6.	<p>THE FACTORS ASSOCIATED WITH DRIVING UNDER THE INFLUENCE OF ALCOHOL</p> <p>Emir Smailović, Dalibor Pešić, Boris Antić, Nenad Marković, <i>University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia</i></p>
7.	<p>EVALUATION OF THE COMPATIBILITY FACTOR OF THE VEHICLE COLLISION PROCESS IN REAL TRAFFIC ACCIDENTS</p> <p>Goran Mihaljčić, Bojan Mihaljčić, <i>Banja Luka, Bosnia and Herzegovina</i></p> <p>Vuk Bogdanović, <i>University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia</i></p> <p>Tihomir Đurić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboј, Bosnia and Herzegovina</i></p>

8.	<p>COMPARATIVE ANALYSIS OF DATA OBTAINED FROM THE DIGITAL TACHOGRAPH, DRIVER'S CARD AND TRAVEL ORDERS PN-3</p> <p>Đorđe Popović, Tihomir Đurić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina</i></p> <p>Saša Petrović, Slaviša Gačić, <i>Inspectorat of the Republic of Srpska, Banja Luka, Bosnia and Herzegovina</i></p>
9.	<p>COMPARISON OF ROLLER BRAKING FORCE RESULTS ON THE SAME VEHICLE AT TWO DIFFERENT VEHICLE INSPECTION STATIONS</p> <p>Đorđe Popović, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina</i></p> <p>Slaviša Gačić, Saša Petrović, <i>Inspectorat of the Republic of Srpska, Banja Luka, Bosnia and Herzegovina</i></p> <p>Adaleta Skula, <i>Mixed Secondary School Tešanj, Bosnia and Herzegovina</i></p>
10.30-11.00	BREAK
09.00-10.30	SESSION 2 – Hall 2
1.	<p>THE IMPACT OF MICRODEPOTS ON THE EFFICIENCY OF URBAN DISTRIBUTION</p> <p>Stevan Veličković, Jelena Milutinović, Biljana Grgurović, Slavica Radosavljević, <i>Academy of Technical-Artistic Vocational Studies Belgrade, Department of High ICT, Belgrade, Serbia</i></p>
2.	<p>TELEMATICS SYSTEMS IN DANGER GOOD TRANSPORT</p> <p>Aleksandar Stjepanović, Miroslav Kostadinović, Goran Kuzmić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina</i></p> <p>Mario Radonjić, Milana Sredojević, <i>Bosnia and Herzegovina</i></p>
3.	<p>REGARDING THE MATTER OF TARE-PIECE CARGO STORAGE CAPACITY</p> <p>Ilesaliev D.I., Ismatullaev A.F., Mustanov O.G., <i>Tashkent State Transport University, Uzbekistan</i></p>
4.	<p>MODEL OF CYBER-PHYSICAL SYSTEM FOR TRACKING AND PREDICTION OF POSTAL DELIVERY TIMES</p> <p>Mirko Stojčić, Đorđe Popović, Nataša Đalić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina</i></p> <p>Maid Husić, Tanja Kostadinović, <i>Bosnia and Herzegovina</i></p>
5.	<p>ANALYSIS AND CONCLUSIONS ON THE IMPACT OF TRANSPORT CONTAINERS ON TRANSPORTATION CONDITIONS</p> <p>Ilesaliev D.I., Svetashev A.A., Ismatullaev A.F., Shikhnazarov J.A., <i>Tashkent State Transport University, Uzbekistan</i></p>
6.	<p>PROPOSAL FOR THE TECHNICAL SOLUTION OF INTELLIGENT LIGHT SIGNALING</p> <p>Tanja Kostadinović, Darko Spasojević, Vanja Vanovac, <i>Bosnia and Herzegovina</i></p> <p>Svetko Milutinović, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina</i></p>
7.	<p>APPLICATION OF DIGITAL SOLUTIONS IN POSTAL SERVICES</p> <p>Biljana Grgurović, Slavica Radosavljević, Jelena Milutinović, Stevan Veličković, <i>Academy of Technical and Art Applied Studies Belgrade, Department of High School of Information and Communication Technologies, Belgrade, Serbia</i></p>

8. THE USE OF BIG POSTAL DATA AS A NEW BUSINESS OPPORTUNITY FOR POSTAL OPERATORS
Jelena Milutinović, Slavica Radosavljenić, Biljana Grgurović, Stevan Veličković,
Academy of Technical and Art Applied Studies Belgrade, Department of High School of Information and Communication Technologies, Belgrade, Serbia

10.30-11.00 BREAK

11.00-12.30 SESSION 1 – Hall 1

1. SPECIFICITIES OF REGENERATIVE BRAKING AND RECOVERY OF ELECTRICAL ENERGY FOR ELECTRIC BUS
Slobodan Mišanović, JKP GSP "Beograd", Belgrade, Serbia
2. FORENSICS OF PORSCHE CARRERA GT FIRE CASE PRESENTATION
Vojkan M. Zorić, Megatrend University, Faculty of Civil Aviation, Belgrade, Serbia
Jovan P. Šetrajčić, Academy of Sciences and Arts of the Republic of Srpska, Banja Luka, Bosnia and Herzegovina
3. THE CHOICE OF TYRES AS A SAFETY FACTOR IN TERMS OF ACTUAL AND DISPLAYED SPEED
Sanja Rakić, Miloš Ninković, Bosnia and Herzegovina
Zoran Ristikić, Miroslav Pavlović, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
4. ELECTRIC VEHICLE POWERTRAIN DESIGN
Zoran Ristikić, Svetko Milutinović, Milan Eremija, Miroslav Pavlović, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Ernad Ajanović, Bosnia and Herzegovina
5. INFLUENCE OF THE APPLICATION OF BIODIESEL FUEL ON THE DRIVE AND ENVIRONMENTAL CHARACTERISTICS OF INTERNAL COMBUSTION ENGINES
Milan Eremija, Zoran Ristikić, Svetko Milutinović, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Snežana Petković, University of Banja Luka, Faculty of Mechanical Engineering, Banja Luka, Bosnia and Herzegovina
Pero Dugić, University of Banja Luka, Faculty of Technology, Banja Luka, Bosnia and Herzegovina
6. INTELLIGENT TRANSPORTATION SYSTEMS AS A SOLUTION FOR REDUCING FATAL CRASHES
Dragan Radovanović, Elementary School "Vuk Karadžić", Sočanica, Serbia
7. ELECTRIC VEHICLES
Aleksandar Mićović, Vojislav Krstić, University of Priština, Faculty of Technical Sciences in Kosovska Mitrovica, Kosovska Mitrovica, Serbia
Živorad Ristić, Insurance Association of Serbia, Beograd, Serbia
Slobodan Makragić, Auto Visit LLC, Beograd, Serbia
8. IMPACT OF MOTOR VEHICLES ON THE ENVIRONMENT
Zoran Čurguz, Miroslav Kostadinović, Siniša Božičković, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
Ivan Krstić, Božidar Krstić, University of Kragujevac, Faculty of Engineering, Kragujevac, Serbia

- POSSIBILITIES FOR DETERMINATION OF THE OPTIMAL STRATEGY FOR PREVENTIVE MAINTENANCE OF THE VEHICLE ELECTRICAL EQUIPMENT USING MULTI-CRITERIA OPTIMIZATION
9. **Zoran Čurguz, Miroslav Kostadinović**, *University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina*
Ivan Krstić, Božidar Krstić, *University of Kragujevac, Faculty of Engineering, Kragujevac, Serbia*

11.00-12.00 **SESSION 2 – Hall 2**

- TECHNICAL ASPECTS OF APPLICATION OF ELECTRONIC SIGNATURE IN BUSINESS SYSTEMS
1. **Salih Husaković**, *Bosnia and Herzegovina*
Bojana Ristić, *University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina*
- IMPLEMENTATION OF A SENSOR SYSTEM IN TRAFFIC BASED ON THE ZIGBEE PLATFORM
2. **Tanja Kostadinović, Amer Sarajlić, Aleksa Mirčetić**, *Bosnia and Herzegovina*
- APPLICATION OF RFID TECHNOLOGY IN IDENTIFICATION AND MEASUREMENTS - CASE STUDY ATHLETIC RACE
3. **Žarko Jovanović**, *Bosnia and Herzegovina*
- MODEL OF MONITORING LINUX BASED PLATFORM IN LARGE CORPORATE NETWORK
4. **Sanja Jevtić, Marko Bursać**, *Academy of Technical and Art Applied Studies Belgrade, Department of School of Railway Transport, Belgrade, Serbia*
Dragan Jevtić, *Infrastructure of Serbian Railway, Belgrade, Serbia*
Marija Zajeganović, *Academy of Technical and Art Applied Studies Belgrade, Department of School of Information and Communication Technologies, Belgrade, Serbia*
- CONCENTRATION OF ECONOMIC ACTIVITIES OF THE REPUBLIC OF SRPSKA AND THEIR INFLUENCE ON EMPLOYMENT AND STRATEGIC DECISIONS
5. **Siniša Božićković**, *University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina*
Cviko Jekić, *Economic Faculty, University of East Sarajevo, Brčko, Bosnia and Herzegovina*
Goran Mitrović, *Drina Insurance Inc. Milići, Branch Bijeljina, Bijeljina, Bosnia and Herzegovina*
Adaleta Skula, *Mixed Secondary School Tešanj, Bosnia and Herzegovina*
Željka Filipović, *Bosnia and Herzegovina*

12.30

CONCLUDING REMARKS
CLOSURE OF THE CONFERENCE
Hall 1

IX International Symposium of transport and communications
NEW HORIZONS 2023

CONFERENCE SPONSORS



ВЛАДА
РЕПУБЛИКЕ СРПСКЕ

