



VIII International Symposium
NEW HORIZONS 2021
of transport and communications
26 - 27 November

University of East Sarajevo
Faculty of Transport and Traffic Engineering
Doboj



PROGRAM



Doboj 2021.

NEW HORIZONS 2021

ORGANIZER

Faculty of Transport and Traffic Engineering, University of East Sarajevo

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- Faculty of Transport and Traffic Engineering, University of Belgrade; Serbia
- Faculty of Technical Sciences, University of Novi Sad, Serbia
- Faculty of Technical Sciences Bitola, University of St. Kliment Ohridski, North Macedonia

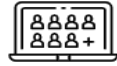
PROGRAM COMMITTEE

Alphabetically:

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Boris ANTIĆ	University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
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Slavko ĐURIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Dobož, Bosnia and Herzegovina
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Gordana JOTANOVIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Dobož, Bosnia and Herzegovina
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Gordan STOJIĆ	University of Novi Sad, Faculty of Technical Sciences, Serbia
Marko SUBOTIĆ	University of East Sarajevo, Faculty of Transport and Traffic Engineering Dobož, 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

CONFERENCE PROGRAM – 26th November 2021



Online Conference

10.00-12.00 FORMAL OPENING AND PLENARY SECTION

1. CAPACITY ANALYSIS OF UNSIGNALIZED INTERSECTIONS IN DEVELOPING COUNTRIES
Dr Mithun Mohan, *Assistant Professor at National Institute of Technology Karnataka, Surathkal, India*

BREAK

2. TWENTY YEARS SINCE THE INTRODUCTION OF THE TRACK ACCESS CHARGES FOR THE USE OF RAILWAY INFRASTRUCTURE IN EUROPE - TRENDS AND RULES OF TRAIN ACCESS CHARGES LEVEL
Branislav Bošković, *Full professor at Faculty of Transport and Traffic Engineering, University of Belgrade, Serbia*
3. TAKE A LOOK ON THE TRACK ACCESS CHARGES STRUCTURE FOR THE USE OF RAILWAY INFRASTRUCTURE
Mirjana Bugarinović, *Associate professor at Faculty of Transport and Traffic Engineering, University of Belgrade, Serbia*

SESSIONS – parallel sections

13.00-15.00 VIRTUAL ROOM 1

1. TRAFFIC SAFETY OF YOUNG DRIVERS IN THE REPUBLIC OF SRPSKA
Bojan Marić, *University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboј, Republic of Srpska, Bosnia and Herzegovina*
Krsto Lipovac, *University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia*
2. TRANSPORT IN THE WHIRLPOOL OF THE LOST DECADE
Drago Pupavac, *Polytechnic of Rijeka, Croatia*
Knežević Josip, *HŽ Infrastruktura d.o.o., Croatia*
3. ANALYSIS OF VEHICLE DAMAGE IN PEDESTRIAN TRAFFIC ACCIDENTS
Nenad Saulić, Zoran Papić, Milan Simeunović, Andrijana Jović, *University of Novi Sad, Faculty of Technical Sciences, Serbia*
4. IMPACT OF EXITING VEHICLES ON CRITICAL HEADWAY VALUE
Dunja Radović, *University of East Sarajevo, Faculty of Transport and Traffic Engineering, Republic of Srpska, Bosnia and Herzegovina*
Vuk Bogdanović, *University of Novi Sad, Faculty of Technical Sciences, Serbia*
5. ANALYSIS OF THE CONDITION OF FIBER BULBS ON MOTOR VEHICLES AFTER TRAFFIC ACCIDENTS
Vojkan M. Zorić, Dragan Đurđević, *Megatrend University, The Faculty of Civil Aviation, Belgrade, Serbia*
Igor J. Šetrajić, *Academy of Sciences and Arts of the Republic of Srpska, Republika Srpska, Bosnia and Herzegovina*
Siniša M. Vučenović, *University of Banjaluka, Faculty of Natural Sciences and*

Mathematics, Republika Srpska, Bosnia and Herzegovina

Jovan P. Šetrajić, *Academy of Sciences and Arts of the Republic of Srpska, Republika Srpska, Bosnia and Herzegovina*

PREDICTION OF ACCIDENT USING TIME SERIES METHODS AND MODELS IN SERBIA

6. **Miloš Pljakić**, *Faculty of Technical Sciences, University of Priština in Kosovska Mitrovica, Serbia*
Predrag Stanojević, *Academy of Applied Studies, Department of Road Traffic and Transport, Leposavić, Serbia*
Dragan Jovanović, *Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia*
-

ANALYSIS OF PEDESTRIANS' ATTITUDES ABOUT THE LEVEL OF SERVICE AT THE PEDESTRIAN CROSSING IN THE AREA OF THE INTERSECTION WITH A DEFINED EXCLUSIVE PEDESTRIAN PHASE

7. **Boris Antić, Mladen Kovač, Dalibor Pešić, Jelena Divac**
University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia
-

MICROMOBILITY AND ROAD TRAFFIC SAFETY OF VULNERABLE ROAD USERS

8. **Dušan Mladenović, Krsto Lipovac, Jelica Davidović**
University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia
-

DRIVING STYLES AMONG PROFESSIONAL DRIVERS IN MONTENEGRO

- Boško Matović**, *Faculty of Mechanical Engineering, University of Montenegro, Podgorica, Montenegro*
Dragan Jovanović, *Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia*
Milanko Damjanović, *Faculty of Mechanical Engineering, University of Montenegro, Podgorica, Montenegro*
9. **Spasoje Mičić**, *Ministry of Transport and Communications of the Republic of Srpska, Banja Luka, Republika Srpska, Bosnia and Herzegovina*
Demir Dešević, *Ministry of Capital Investments, Rimski trg 45, 81000 Podgorica, Montenegro*
Aleksandar Bulajić, *Higher Education Technical School of Professional Studies in Novi Sad, Školska 1, 21000 Novi Sad, Serbia*
Miloš Pljakić, *Faculty of Technical Sciences, University of Priština in Kosovska Mitrovica, Serbia*
Svetlana Bačkalić, *Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia*
-

THE IMPACT OF VEHICLE ADVERTISING ON TRAFFIC SAFETY

10. **Stanko Laković**, *University of Maribor, Faculty of Civil Engineering, Transportation Engineering and Architecture, Maribor, Slovenia*
-

SAFETY ON SLOVENIAN ROADS DURING COVID

11. **Stanko Laković**, *University of Maribor, Faculty of Civil Engineering, Transportation Engineering and Architecture, Maribor, Slovenia*
-

12. TRANSPORT NETWORK MODELING
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Elena - Claudia Lixandroiu, *Transport Engineering Faculty, Polytechnic University of Bucharest, Romania*

BREAK

16.00-18.00 VIRTUAL ROOM 1

1. COMPARATIVE ANALYSIS OF THE METHODOLOGY FOR THE ANALYSIS OF CAPACITY AND SERVICE LEVELS OF TWO-LANE ROADS
Ana Bonić, Marko Subotić, *University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboј, Republic of Srpska, Bosnia and Herzegovina*
2. URBAN PLANING AND TRAFFIC SAFETY
Aleksandar Pavlović, Darija Pavlović, *CIS inženjering doo, Odzaci, Serbia*
3. SAFETY AND RISIK WHEN TRANSPORTING LIQUID FLAMMABLE SUBSTANCES
Vojislav Krstić, *Faculty of Technical Sciences, Kosovska Mitrovica, Serbia*
Boris Antić, *University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia*
Božidar Krstić, *Faculty of Engineering University of Kragujevac, Serbia*
4. APPLICATION OF ENERGY METHOD FOR DETERMINATION OF VEHICLE IMPACT SPEED IN COLLISION WITH STOPPING OR SLOW MOVING VEHICLE IN INTERSECTION
Zoran Papić, Nenad Saulić, Vuk Bogdanović, Andrijana Jović, *Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia*
5. THE FUTURE OF LUTI MODELS
Ovidiu Harpaleta, Șerban Stere, *Politehnica University of Bucharest, Bucharest, Romania*
6. PREDICTION OF TRAFFIC FLOW ON A MONTHLY LEVEL USING MACHINE LEARNING
Sladana Janković, Stefan Zdravković, Dušan Mladenović, Snežana Mladenović, Ana Uzelać, *University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia*
7. ALGORITHM FOR APPLYING THE SIMPLE RENEWAL MODEL OF A HOMOGENEOUS FLEET THROUGH THE MATLAB INTERACTIVE SOFTWARE PACKAGE
Miladin Rakić, *City administration of the City of Bijeljina, Bijeljina, Bosnia and Herzegovina*
Milica Miličić, *Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia*
Radoslav Kojić, *Brcko District Government, Brcko, Bosnia i Herzegovina*
8. WAITING TIME AS AN INFLUENCING FACTOR ON THE GAP ACCEPTANCE PROCESS AT ROUNDABOUTS
Dunja Radović, *University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboј, Republic of Srpska, Bosnia and Herzegovina*
9. RISK ASSESSMENT OF AERO-POLLUTION ACCIDENTS IN TRANSPORTATION USING THE „ALOHA“ MODEL
Stevo K. Jaćimovski, Srećko Ilić, *University of Criminal Investigation and Police Studies, Zemun-Belgrade, Serbia*

Jelena Lamovec, *University of Belgrade, Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia*

Siniša M. Vučenović, *Faculty of Natural Sciences and Mathematics, University of Banja Luka, Banja Luka, Republic of Srpska, Bosnia and Herzegovina*

Jovan P. Šetrajić, *Academy of Sciences and Arts of the Republic of Srpska, Banja Luka, Republic of Srpska, Bosnia and Herzegovina*

COMPARATIVE ANALYSIS OF THE PUBLIC TRANSPORT SYSTEM OF INDIJA AND STARA PAZOVA

10. **Milan Lazarević, Milan Simeunović, Pavle Pitka, Andrijana Jović, Milja Simeunović**, *Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia*
-

STANDARDS OF THE BUS RAPID TRANSIT SYSTEM OF PASSENGERS IN CITIES

11. **Pavle Gladović**, *Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia*
Vladimir Popović, *College of Applied Technical Sciences Nis, Serbia*
Vesko Lukovac, *University of Defence Belgrade, Military Academy, Serbia*
Milan Stanković, *College of Applied Technical Sciences Nis, Serbia*
-

ACTION OF CONTROL OF TECHNICAL CORRECTNESS OF MOTOR VEHICLES ON THE INCREASE OF TRAFFIC SAFETY IN THE REPUBLIC OF SRPSKA

12. **Tihomir Đurić, Miroslav Pavlović**, *University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Republic of Srpska, Bosnia and Herzegovina*
Vladan Đurić, *D.O.O. "Interdom" Banja Luka, Republic of Srpska, Bosnia and Herzegovina*
Drago Kovačević, *D.O.O. "3 D Izvor" Gradiska, Republic of Srpska, Bosnia and Herzegovina*
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13.00-15.00	VIRTUAL ROOM 2
1.	<p>THE CALCULATION OF TRAIN RUNNING TIMES ON A CRITICAL SECTION USING DIFFERENT METHODS - EXAMPLE SOPOT KOSMAJSKI - RIPANJ TUNEL SECTION (REPUBLIC OF SERBIA)</p> <p>Zorica Milanović, Stefan Radojković, Dušan Vujović, <i>Academy of Technical and Art Applied Studies Belgrade, Department School of Railway Transport, Belgrade, Serbia</i></p>
2.	<p>BEHAVIOR OF ROAD TRAFFIC PARTICIPANTS AT ACTIVE AND PASSIVE LOCAL RAILWAY CROSSINGS IN SERBIA</p> <p>Goran Tričković, Sandra Kasalica, Milan Milosavljević, <i>Academy of Technical and Art Applied Studies Belgrade, Dpt. School of Railway Studies, Belgrade, Serbia</i></p> <p>Snježana Rajilić, <i>Bosnia and Herzegovina Railways Public Corporation, Sarajevo, Bosnia and Herzegovina</i></p> <p>Dušan Jeremić, <i>Academy of Technical and Art Applied Studies Belgrade, Dpt. School of Railway Studies, Belgrade, Serbia</i></p>
3.	<p>THE ROLE OF BLOCK SYSTEMS IN ETCS LEVELS</p> <p>Sanja Jevtić, Marko Bursać, Goran Tričković, <i>Academy of Technical and Art Applied Studies Belgrade, Dpt. School of Railway Studies, Belgrade, Serbia</i></p> <p>Dragan Jevtić, <i>Infrastructure of Serbian Railways, IT department, Belgrade, Serbia</i></p>
4.	<p>MANAGEMENT OF UNEVENNESS OF THE RAIL HEAD – ASPECT OF SUSTAINABLE DEVELOPMENT</p> <p>Milica Mičić, Luka Lazarević, Zdenka Popović, <i>University of Belgrade, Faculty of Civil Engineering, Belgrade, Serbia</i></p>
5.	<p>SUPERSTRUCTURE TYPES FOR URBAN RAIL SYSTEMS</p> <p>Zdenka Popović, Milica Mičić, Luka Lazarević, <i>University of Belgrade, Faculty of Civil Engineering, Belgrade, Serbia</i></p>
6.	<p>ASSESSMENT OF THE LEVEL OF SAFETY AT RAILWAY CROSSINGS BY PARTICIPANTS IN ROAD TRAFFIC USING THE FUZZY TOPSIS METHOD</p> <p>Milan Milosavljević, Sandra Kasalica, <i>Academy of Technical and Art Applied Studies Belgrade, Dpt. School of Railway Studies, Belgrade, Serbia</i></p> <p>Snježana Rajilić, <i>Bosnia and Herzegovina Railways Public Corporation, Dobo, Bosnia and Herzegovina</i></p> <p>Dušan Jeremić, Zoran Pavlović, <i>Academy of Technical and Art Applied Studies Belgrade, Dpt. School of Railway Studies, Belgrade, Serbia</i></p>
7.	<p>FUNCTIONALITY OF SHUNTING YARDS IN A MODERN FREIGHT TRANSPORT SYSTEM – CONSIDERATION OF AUTOMATED ROLLING STOCK INSPECTION</p> <p>Adrian Wagner, <i>Carl Ritter von Ghega Institut – St. Pölten University of Applied Sciences, Austria</i></p> <p>Michael Thomasitz, <i>Supreme Railway Authority - Federal Ministry Republic of Austria, Climate Action, Environment, Engery, Mobilty, Innovation and Technology, Wien, Austria</i></p> <p>Frank Michelberger, <i>Carl Ritter von Ghega Institut – St. Pölten University of Applied Sciences, Austria</i></p>

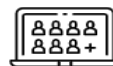
8.	<p>ANALYSIS OF ICT APPLICATION IN RAILWAY ENTERPRISES IN THE DIGITALIZATION PROCESS</p> <p>Zoran G. Pavlović, Zoran Bundalo, Veljko Radičević, Marko Bursać, <i>Academy of Technical and Art Applied Studies Belgrade, Dpt. School of Railway Studies, Belgrade, Serbia</i></p>
9.	<p>ACCEPTANCE OF AUTOMATED VEHICLES IN THE FUTURE TRANSPORT AND LOGISTICS - RESULTS OF STAKEHOLDERS EVALUATION WORKSHOP FOR SLOVAKIA AND CZECHIA</p> <p>Manon Feys, Evy Rombaut, <i>BUTO - Research group MOBI - Vrije Universiteit Brussel, Brussel, Belgium</i></p> <p>Peter Márton, <i>University of Žilina, Faculty of Management Science and Informatics, Žilina, Slovakia</i></p> <p>Lieslot Vanhaverbeke, <i>BUTO - Research group MOBI - Vrije Universiteit Brussel, Brussel, Belgium</i></p>
10.	<p>SINGLE RAILWAY INFRASTRUCTURE MANAGER FOR AN INTERNATIONAL RAILWAY CORRIDOR</p> <p>Kornél Nagy, <i>European Union Agency for Railways, Valenciennes, France</i></p>
11.	<p>TEN YEARS OF THE REGULATION 913/2010 CONCERNING A EUROPEAN RAIL NETWORK FOR COMPETITIVE FREIGHT</p> <p>Miroslav Prokić, <i>University of Belgrade, Faculty for Transport and Traffic Engineering, Belgrade, Serbia</i></p>
BREAK	
16.00-18.00	VIRTUAL ROOM 2
1.	<p>RISK ASSESSMENT OF LEVEL CROSSINGS ON LINE SECTION OSTRUŽNJA-VIJAČANI AND THEIR INFLUENCE ON RAILWAY TRAFFIC SAFETY</p> <p>Tihomir Subotić, Amna Rahmanović, Marko Vasiljević, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboј, Republic of Srpska, Bosnia and Herzegovina</i></p>
2.	<p>ECONOMIC EFFECTS OF VERTICAL SEPARATION IN THE RAILWAY SECTOR</p> <p>Jovo Steljić, Lazar Mosurović, Jakša Popović, <i>Directorate for Railways, Belgrade, Serbia</i></p>
3.	<p>THE CONCEPT OF EFFICIENCY IN ECONOMIC THEORY, EU RAILWAY REGULATION AND DEA METHOD</p> <p>Marija Selaković, Mirjana Bugarinović, Branislav Bošković, <i>University of Belgrade, Faculty for Transport and Traffic Engineering, Belgrade, Serbia</i></p>
4.	<p>TRENDS IN THE RAILWAY TRANSPORT OF GOODS BY CONTINENTS</p> <p>Ivana Matović, Branislav Bošković, <i>University of Belgrade, Faculty for Transport and Traffic Engineering, Belgrade, Serbia</i></p>
5.	<p>NEW APPROACH TO RAILWAY VEHICLE MAINTENANCE MANAGEMENT</p> <p>Nermin Čabrić, <i>Regulatory Board of Railways of BiH, Doboј, Bosnia and Herzegovina</i></p> <p>Nedžad Branković, <i>PIN.B C&I CONSULTING&INVESTMENT, Sarajevo, Bosnia</i></p>

and Herzegovina

Ratko Đuričić, *University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina*

6. SIMULATION OF HIGHER CURRENT HARMONICS FROM NONLINEAR LOADING WITH SMALL POWER
Aleksandar Lazić, Branislav Gavrilović, *Academy of Technical and Art Applied Studies Belgrade, Dpt. School of Railway Studies, Belgrade, Serbia*
-
7. NEW CONCEPT OF LOCAL PASSENGER TRAFFIC ON THE RAILWAYS OF THE REPUBLIC OF SRPSKA WITH SPECIAL REFERENCE TO RAILWAY STATIONS
Miroslav Đurić, Mirnes Požegić, *University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina*
-
8. SOLUTION OF THE RADIO NETWORK FOR TRAFFIC MANAGEMENT ON THE SIDE RAILWAYS OF THE SERBIAN RAILWAYS
Damir Zaborski, *Academy of Technical and Art applied studies Belgrade, Department of Railroad transpor, Belgrade, Serbia*
Vesna Vičić, *Serbian Railway Infrastructure, Sector for Electrical Engineering Belgrade, Serbia*
-
9. SERVICE FACILITIES AND RAIL RELATED SERVICES. LEGAL REGULATION AND COMPETENCE OF THE DIRECTORATE FOR RAILWAYS
Branka Nedeljković, Lazar Mosurović, Vida Jerković, *Directorate for Railways, Belgrade, Serbia*
-
10. REDUCTION OF RISKS WHILE TRANSPORTING DANGEROUS GOODS THROUGH THE RAILWAY
Vladimir Malčić, *University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina*
Branko Milovanović, Miloš Ivić, Svetlana Čičević, *University of Belgrade, Faculty for Transport and Traffic Engineering, Belgrade, Serbia*
Rade Cvijanović, *Railway of RS Doboj, Doboj, Bosnia and Herzegovina*
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CONFERENCE PROGRAM – 27th November 2021



Online Conference

SESSIONS – parallel sections

09.30-11.30	VIRTUAL ROOM 1
1.	<p>GOODS AND TRANSPORTATION FLOWS OF SREM ADMINISTRATIVE DISTRICT</p> <p>Gordan Stojić, Siniša Sremac, Ilija Tanackov, <i>Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia</i></p>
2.	<p>TRANSPORT DEMAND MODELLING IN NETWORKS WITH FLOWS CONSOLIDATION</p> <p>Armand – Șerban Stere, Ovidiu Harpalete, <i>University Politehnica of Bucharest, Faculty of Transports, Transport, Traffic and Logistics Department, Bucharest, Romania</i></p>
3.	<p>CROWDSHIPING CONCEPT FOR THE LAST MILE DELIVERY</p> <p>Mladen Krstić, Snežana Tadić, Jovica Smiljković, Slobodan Zečević, <i>University of Belgrade, Faculty of Transport and Traffic Engineering, Belgrade, Serbia</i></p>
4.	<p>HOME DELIVERY TECHNOLOGIES</p> <p>Snežana Tadić, Slobodan Zečević, Miloš Veljović, Mladen Krstić, <i>University of Belgrade, Faculty for Transport and Traffic Engineering, Belgrade, Serbia</i></p>
5.	<p>IMPLEMENTATION OF NEW PARADIGMS OF THE WHOLES IN CYBERPHYSICAL SYSTEM OF TELECOMMUNICATIONS TRAFFIC AND DIGITAL SERVICES</p> <p>Milorad K. Banjanin, <i>Department of Computer Science and Systems, University of East Sarajevo, Bosnia and Herzegovina</i></p> <p>Mirko Stojčić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering, Dobož, Bosnia and Herzegovina</i></p>
6.	<p>PREDICTIVE MODELING OF TELECOMMUNICATIONS TRAFFIC PERFORMANCE BASED ON MACHINE LEARNING TECHNIQUES</p> <p>Mirko Stojčić, <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Dobož, Dobož, Bosnia and Herzegovina</i></p> <p>Milorad K. Banjanin, <i>Department of Computer Science and Systems, University of East Sarajevo, Bosnia and Herzegovina</i></p>
7.	<p>THE FUTURE OF THE POSTAL SECTOR IN A "SMART" ENVIRONMENT</p> <p>Mladenka Blagojević, Dejan Marković, Lana Jovković, <i>University of Belgrade, Faculty for Transport and Traffic Engineering, Belgrade, Serbia</i></p>
8.	<p>EXPECTED IMPROVEMENTS OF MOBILE SYSTEMS BY INTRODUCING 5G TECHNOLOGY IN THE TELECOMMUNICATIONS INDUSTRY OF MOBILE SYSTEMS</p> <p>Amir Adilović, <i>BNT-TMiH, Machine and Hydraulics factory, Novi Travnik, Bosnia and Herzegovina</i></p>

	Edvin Škaljo , <i>University of Sarajevo, Faculty of Science (Natural Sciences and Mathematics), Sarajevo, Bosnia and Herzegovina</i>
9.	INTERNET OF THINGS IN WASTE MANAGEMENT SOLUTION FOR SMART CITIES Aleksandar Stjepanović, Miroslav Kostadinović, Goran Kuzmić, Mirko Stojčić , <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina</i>
10.	SIMULATION OF ALOHA IDENTIFICATION PROTOCOL IN RFID ENVIRONMENT Jovanović Žarko , <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina</i>
11.	THE APPLICATION OF CONSOLIDATION CENTERS TO POSTAL SERVICES OPERATIONS Biljana Grgurović, Stevan Veličković , <i>Academy of Technical and Art Applied Studies Belgrade, Dpt. School of Information and Communication Technologies, Belgrade, Serbia</i>
12.	RC CIRCUIT AS A DYNAMIC SYSTEM Slavko Đurić, Vesna Mišić, Milan Milić , <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina</i>
13.	MATERIAL WAREHOUSE MANAGEMENT DATABASE DESIGN Željko Stjepanović, Alen Panić , <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina</i>
14.	ALGORITHM FOR ASSESSING THE CURRENT DRIVER'S ABILITY TO DRIVE A VEHICLE BASED ON EYE PARAMETER RECOGNITION Gordana Jotanović, Aleksandar Damjanović , <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina</i> Željko Stojanov , <i>University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Serbia</i> Dragan Peraković , <i>University of Zagreb, Faculty of Transport and Traffic Sciences, Zagreb, Croatia</i> Amel Kosovac , <i>University of Sarajevo, Faculty of Transport and Communications, Sarajevo</i>
09.30-11.30	VIRTUAL ROOM 2
1.	AUTOMATIC DISCRETIZATION PARAMETERS FOR ASSESSING THE GUILT IN ROAD ACCIDENTS Goran Jauševac, Branko Jotanović , <i>University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboj, Bosnia and Herzegovina</i> Vladimir Brtko, Dalibor Dobrilović , <i>University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Serbia</i>
2.	PERSPECTIVE MIGRATIONS OF ERTMS SYSTEM FROM GSM-R TO LTE TECHNOLOGY IN BIH Faruk Kubat , <i>AŽD Praha, s.r.o., Banja Luka, Bosnia and Herzegovina</i> Popović Goran , <i>International University Travnik, Travnik, Bosnia and Herzegovina</i>
3.	ANALYSIS OF THE RESULTS OF AUTOMATIC NUMBER PLATE RECOGNITION DEPENDING ON INFLUENTIAL FACTORS

Belmin Avdić, Aleksandar Gavrić, *University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina*

EXPLOITATION OF MOTOR VEHICLES AND MOTORS IN SPECIAL AMBIENTAL CONDITIONS

4. **Vojislav Krstić**, *Faculty of Technical Sciences in Kosovska Mitrovica, Serbia*
Božidar Krstić, *University of Kragujevac, Faculty of Engineering, Serbia*
Nikola Krstić, *Faculty of Electronic Engineering Nis, University of Nis, Nis, Serbia*
Mesud Ajanović, *University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboj, Bosnia and Herzegovina*
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CONTRIBUTION TO THE DETERMINATION OF VEHICLES BRAKING SYSTEM EFFICIENCY USING MEMS ACCELEROMETERS

5. **Jasmin Šehović**, *Mervik d.o.o., Sarajevo, 71000, Bosnia and Herzegovina*
Boran Pikulab, *University of Sarajevo, Mechanical Engineering Faculty, Sarajevo, Bosnia and Herzegovina*
-

INCORRECTLY DETERMINED TECHNICAL CONDITION (DIAGNOSTICS) AS A CAUSE OF DIESEL ENGINE FAILURE

6. **Zoran Ćurguz, Siniša Božičković, Miroslav Pavlović**, *University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboj, Bosnia and Herzegovina*
Ivan Krstić, Božidar Krstić, *University of Kragujevac, Faculty of Engineering, Serbia*
-

THE NEED AND SIGNIFICANCE OF LABORATORY ACCREDITATION AS AN INSPECTION BODY FOR TESTING VEHICLES FOR THE TRANSPORT OF DANGEROUS GOODS

7. **Zoran Ćurguz, Ranko Božičković**, *University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboj, Bosnia and Herzegovina*
Božidar Krstić, *University of Kragujevac, Faculty of Engineering, Serbia*
Vojislav Krstić, *Faculty of Technical Sciences in Kosovska Mitrovica, Serbia*
-

INSPECTION OF SPECIAL FUNDS FOR THE TRANSPORT OF PERISHABLE FOODSTUFFS

8. **Zoran Ćurguz, Ranko Božičković**, *University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboj, Bosnia and Herzegovina*
Božidar Krstić, *University of Kragujevac, Faculty of Engineering, Serbia*
-

METHODS OF REDUCING EMISSIONS OF HARMFUL SUBSTANCES FROM ICE- ENGINES

9. **Milan Milotić, Slavko Đurić**, *University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboj, Bosnia and Herzegovina*
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ANALYSIS OF THE IMPLEMENTATION OF PROFESSIONAL PRACTICE: A CASE STUDY AT THE FACULTY OF MARITIME STUDIES IN RIJEKA

10. **Livia Maglić, Ana Perić Hadžić, Valentina Šutalo**, *University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia*
-

BASIC FEATURES OF RIVER TRAFFIC IN THE REPUBLIC OF CROATIA WITH REFERENCE TO THE PORT OF OSIJEK AND THE PORT OF VUKOVAR

11. **Sara Stanišić, Ines Kolanović**, *University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia*
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12. IMPACT OF NOISE OF TRANSFORMER STATIONS WITH TRAFFIC CORRIDORS ON THE ENVIRONMENT
Dragiša Đorđić, *Independent University of Banja Luka, Faculty of Ecology, Banja Luka, Republika Srpska, Bosnia and Herzegovina*
Slavko Đurić, Milan Milotić, *University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboj, Bosnia and Herzegovina*
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13. ERLANG'S MULTI-CHANNEL MASS SERVICE SYSTEM MODEL WITH TWO TYPES OF CLIENTS
Vesna Mišić, *University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina*
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14. CHALLENGES OF DEVELOPMENT AND BUSINESS STRATEGY IN THE CONDITIONS OF THE KOVID 19 PANDEMIC ON THE EXAMPLE - PE "SUBOTICATRANS" SUBOTICA AND AD "SEVERTRANS" SOMBOR
Dejan Gligovića, Dragan Vukasović, *College of Business and Technical Education Doboj, Doboj, Bosnia and Herzegovina*
Siniša Božičković, Slobodan Subotić, *University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina*
Duško Laković, *Independent University Banja Luka, Banja Luka, Bosnia and Herzegovina*
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15. TRAFFIC NETWORKS AS A FACTOR OF ECONOMIC DEVELOPMENT AND REGIONAL CONCENTRATION OF ECONOMIC ACTIVITIES
Siniša Božičković, Milan Eremija, Saša Ostojić, *University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Doboj, Bosnia and Herzegovina*
Cviko Jekić, *University of East Sarajevo, Faculty of Economics, Brcko, Bosnia and Herzegovina*
Zumreta Galijašević, *Tesanj, Bosnia and Herzegovina*
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