



University of East Sarajevo Faculty of Transport and Traffic Engineering Doboj



PROGRAM







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
- Department of Engines, Vehicles and related Technologies, Institute of Nuclear Sciences VINČA, University of Belgrade

PROGRAM COMMITTEE

Alp	hal	betica	ll	lу	:
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Jiří AMBROS Transport Research Centre, Czechia

Boris ANTIĆ University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia

Ibrahim Ahmed BADI University of Misurata, Department of Mechanical Engineering, Libya
Milan BANIĆ University of Niš Faculty of Mechanical Engineering, Serbia

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University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj,

Bosnia and Herzegovina

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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

Hamed University of Science and Technology Babol, Department of Industrial

FAZLOLLAHTABAR Engineering, Iran

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Pavle KECMAN Allianz, The Netherlands

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Macedonia

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Bosnia and Herzegovina

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Goran MARKOVIĆ
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University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
University of Žilina, Faculty of Management Science and Informatics, Slovakia
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

NEW HORIZONS of Transport and Communications 2019

Dušan MLADENOVIĆ University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia University of Crete. School of Production Engineering and

PAPAGEORGIOU 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 University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia

University of Niš, Faculty of Mechanical Engineering, Serbia

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Andreas SCHÖBEL
Marko SLAVULJ
University of Novi Sad, Faculty of Technical Sciences, Serbia
Vienna University of Technology, Institute of Transportation, Austria
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

University of Pittsburgh, Civil and Environmental Engineering, SAD

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

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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

ORGANIZING COMMITTEE

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Goran PETROVIĆ

Aleksandar STJEPANOVIĆ

Tanja PETROVIĆ

Radenka BJELOŠEVIĆ

Mirko STOJČIĆ Dunja RADOVIĆ Željko VIDOVIĆ

CONFERI	ENCE PROGRAM – 29 th November 2019	Hotel Park, Kneza Lazara 2, Doboj
09.00-10.00	Registration of participants	
10.00-10.30	Opening ceremony – Conference hall 1	
10.30-11.00	COFFEE BREAK	
11.00-14.00	PLENARY SECTION - Conference hall 1	
•	DIGITAL INFRASTRUCTURE FOR THE IMPLEMENT SCIENCE AT THE UNIVERSITY	
	Zoran Ćurguz , University of East Sarajevo, Faculty of Tr Engineering Doboj, Bosnia and Herzegovina	
•	THE FINANCIAL AND ECONOMIC ASSESSMENT OF INVESTMENTS IN CHINA: 10 YEARS' REVIEW	F HIGH SPEED RAIL
	Jianhong Wu , Professor in Transport Economics, Beijing China	Jiaotong University,
	COFFEE BREAK	
•	DEVELOPMENT OF TRANSPORT INFRASTRUCTUR SRPSKA	E IN THE REPUBLIC OF
	Nataša Kostić, Assistant Minister for Road Transport at M Communications of the Republic of Srpska, Bosnia and He	
•	TOWARD EFFICIENT AND RELIABLE RAILWAY CO CENTRAL AND SOUTHEASTERN EUROPE	ONNECTIONS IN THE
	Peter Márton, University of Žilina, Faculty of Manageme. Informatics, Slovakia	nt Science and
•	THE POSITION AND ROLE OF TRANSPORT AND TR THE PROCESS OF PLANNING AND DESIGN RAILWA	
	Miloš S. Ivić, University of Belgrade, Faculty of Transport and	
	COMMERCIAL PRESENTATIONS	33 0 0
	Company X-Express, <i>Banja Luka, Bosnia and Herzegovina</i> Presentation: Journal 'PUT I SAOBRAĆAJ' - Journal of Ro Engineering, <i>Serbia</i>	
14.00-14.30	BREAK (BUFFET COFFEE BREAK)	
	SESSIONS – parallel sections	
14.30-15.50	URBAN AND ROAD TRANSPORT AND TRAF	FIC - Conference hall 1
14.30-14.40	ISO 39001 –ROAD TRAFFIC SAFETY MANAGEMENT	Γ SYSTEM APROACH
	Boris Antić, University of Belgrade, Faculty of Transport and T	raffic Engineering, Serbia
14.40-14.50	IMPORTANCE AND POSSIBILITIES OF MONITORIN PERFORMANCE INDICATORS AT THE LOCAL LEVI CITY OF BELGRADE	
	Krsto Lipovac, Jelica Davidović, Milena Simić, Universitansport and Traffic Engineering, Serbia	ity of Belgrade, Faculty of
	Slaviša Gajić, Secretariat for Public Transport, Belgrade,	Serbia

14.50-15.00	
	IMPORTANCE OF MEASURING POPULATION EXPOSURE IN ROAD TRAFFIC
	Dalibor Pešić, Bojana Todosijević, University of Belgrade, Faculty of Transport
	and Traffic Engineering, Serbia
15.00-15.10	CLASSIFICATION OF 'SCHOOL ZONES' AND RISK MAPPING IN FUNCTION
	OF SPATIAL NETWORK CRITERIA - CASE STUDY OF THE CITY OF BELGRADE
	Sreten Jevremović, Ana Trpković, Branimir Stanić, University of Belgrade,
	Faculty of Transport and Traffic Engineering, Serbia
15.10-15.20	IMPLEMENTING THE IRAP SRS METHODOLOGICAL APPROACH FOR
	DETERMINATION OF INFLUENCE OF CRITICAL HUMAN, VEHICLE AND ROAD FACTORS ON THE PROBABILITY OF FATAL ROAD TRAFFIC
	ACCIDENT OCCURRENCE IN THE REPUBLIC OF CROATIA
	Bojan Jovanović, Marko Ševrović, Ivica Krajnović, University of Zagreb, Faculty
	of Transport and Traffic Sciences, Croatia
15.20-15.30	SAFE AND COMFORTABLE RIDE OF PASSANGERS IN PUBLIC TRANSPORT
	Stanislav Tokař, Aleš Vémola, Roman Mikulec, Institute of Forensic Engineering
	BUT, Czechia
15.30-15.40	SPECIFICITY OF DETERMINING THE CURRENT SITUATION OF THE
	DANGEROUS SITUATION IN ANALYSIS OF TRAFFIC ACCIDENTS IN WHICH PEDESTRIANS ARE INVOLVING
	Osman Lindov, Adnan Omerhodžić, Univesity of Sarajevo, Faculty of Transport
	and Communications, Sarajevo, Bosnia and Herzegovina
15.40-15.50	TRANSPORT DEMAND EVOLUTION IN CROATIA - FACTORS OF CHANGE,
	SCENARIOS AND CHALLENGES Drago Pupavac, Polytechnic of Rijeka, Croatia
	Diago i upavac, i otytechnic of Kijeka, Croatia
	Robert Maršanić, 'Rijeka promet', Croatia
	Robert Maršanić, 'Rijeka promet', Croatia Ljudevit Krpan, Primorsko-goranska county, Croatia
15.50-17.10	Ljudevit Krpan, Primorsko-goranska county, Croatia
	Ljudevit Krpan, Primorsko-goranska county, Croatia RAILWAY TRANSPORT AND TRAFFIC - Conference hall 1
15.50-17.10 15.50-16.00	Ljudevit Krpan, Primorsko-goranska county, Croatia RAILWAY TRANSPORT AND TRAFFIC - Conference hall 1 RAILWAY INFRASTRUCTURE LIFECYCLE MANAGEMENT - A CASE STUDY
	RAILWAY TRANSPORT AND TRAFFIC - Conference hall 1 RAILWAY INFRASTRUCTURE LIFECYCLE MANAGEMENT – A CASE STUDY Hirut Grossberger, Frank Michelberger, Carl Ritter von Ghega Institute for
15.50-16.00	Ljudevit Krpan, Primorsko-goranska county, Croatia RAILWAY TRANSPORT AND TRAFFIC - Conference hall 1 RAILWAY INFRASTRUCTURE LIFECYCLE MANAGEMENT – A CASE STUDY Hirut Grossberger, Frank Michelberger, Carl Ritter von Ghega Institute for Integrated Mobility Research, Austria
	RAILWAY TRANSPORT AND TRAFFIC - Conference hall 1 RAILWAY INFRASTRUCTURE LIFECYCLE MANAGEMENT – A CASE STUDY Hirut Grossberger, Frank Michelberger, Carl Ritter von Ghega Institute for
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15.50-16.00 16.00-16.10	RAILWAY TRANSPORT AND TRAFFIC - Conference hall 1 RAILWAY INFRASTRUCTURE LIFECYCLE MANAGEMENT - A CASE STUDY Hirut Grossberger, Frank Michelberger, Carl Ritter von Ghega Institute for Integrated Mobility Research, Austria COMPARATIVE ANALYSIS OF RAILWAY FREIGHT OPERATOR'S EFFICIENCY Predrag Jovanović, Norbert Pavlović, University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
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	16.30-16.40	DEVELOPMENT OF COTIF'S UNIFORM RULES FOR THE INTERNATIONAL OPERATION OF RAILWAY VEHICLES
		Dragan Nešić, Bas Leermakers , Intergovernmental Organisation for International Carriage by Rail – OTIF, Switzerland
	16.40-16.50	MARSHALLING YARDS: NOISE REDUCTION BY VARIABLE ROLLING RESISTANCE Adrian Wagner, Frank Michelberger , Carl Ritter von Ghega Institut – St. Pölten University of Applied Sciences, Austria Gernot Heil , Austrian Federal Railway (ÖBB) – Infrastructure AG, Austria
	16.50-17.00	TRANSPORT POLICY INSTRUMENTS ON RAILWAY CORRIDORS
	10.30-17.00	Miloš Stanojević, Mirjana Bugarinović, University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
		APPLICATION OF OPENTRACK AT ZELJEZNICE REPUBLIKE SRPSKE
		Jelena Kuzmanović, Nikola Malinović, Railway of RS, Doboj, B&H
		Andreas Schöbel, OpenTrack Railway Technology GmbH, Austria
		Zorica Milanović, High Railway School of Vocational Studies, Serbia
	17.10-17.40	AIR TRANSPORT AND TRAFFIC – Conference hall 1
	17.10-17.20	DEVELOPING THE SECOND GENERATION OF SAFETY MANAGEMENT IN THE AVIATION
		Andrej Lališ, Slobodan Stojić, Czech Technical University in Prague, Czechia
	17.20-17.30	GEODETIC REFERENCE SYSTEMS IN AVIATION
		Sanja Tucikešić, Kornelija Ristić, Faculty for Architecture, Civil Engineering and
		Geodesy of University of Banja Luka, Bosnia and Herzegovina
		Ankica Milinković, 'Vekom geo', Serbia
		Tanja Fržović , Republic administration for geodetic and property affairs, Banja Luka, Bosnia and Herzegovina
	17.30-17.40	ANALYSIS OF THE AIRPORT COMPLEX ACCESSIBILITY
		Olgica Pavlović , University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
		Tomislav Jovanović, Nenad Kapor, Faculty of Civil Aviation, Serbia
	14.30-15.50	TELECOMMUNICATIONS TRANSPORT AND TRAFFIC, POSTAL TRAFFIC and INFORMATICS - Conference hall 2
	14.30-14.40	SEMANTIC MODELING URBAN TRANSPORT SERVICES
		Milorad Banjanin, University of East Sarajevo, Faculty of Philosophy Pale, B&H
	14.40-14.50	INTERNET OF VEHICLES: CHALLENGES AND DEVELOPMENT TRENDS
		Goran Marković, Slobodan Mitrović, Valentina Radojičić, University of
		Belgrade, Faculty of Transport and Traffic Engineering, Serbia
	14.50-15.00	ANALYSIS OF DEVELOPMENT OF THE E-COMMERCE MARKET IN THE REPUBLIC OF SERBIA IN ACCORDANCE WITH THE UNIVERSAL POSTAL UNION PROGRAM
		Mladenka Blagojević, Momčilo Dobrodolac, Dejan Marković, University of
		Belgrade, Faculty of Transport and Traffic Engineering, Serbia
		Dorđe Popović, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
		Engineering Doooj, Bosnia ana Herzegovina

15.00-15.10	INTERNET OF THINGS AND SMART CITIES Pavle Gladović, University of Novi Sad, Faculty of Technical Sciences, Serbia Nemanja Deretić, Belgrade business academy for applied studies, Serbia
15.10-15.20	KNOWLEDGE INNOVATION TRENDS IN THE STANDARDIZATION FIELDS 'ROAD VEHICLES ENGINEERING' AND 'RAILWAY ENGINEERING' Vesna Ružičić, Katarina Mitrović, University of Kragujevac, Faculty of Technical
15 20 15 20	Sciences in Čačak, Serbia
15.20-15.30	SPATIAL ACCESSIBILITY ANALYSIS OF HEALTH CARE FACILITIES IN SERBIA
	Jovan Kovačević, Nikola Stančić, Željko Cvijetinović, Dragan Mihajlović, Nenad Brodić, University of Belgrade, Faculty of Civil Engineering, Serbia
15.30-15.40	GRAPHS IN MODELING LOCAL ROAD NETWORKS: A PRELIMINARY LITERATURE REVIEW
	Jelena Stojanov, Zeljko Stojanov, University of Novi Sad, Technical faculty 'Mihajlo Pupin', Zrenjanin, Serbia
	Goran Jauševac, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
	Ilija Hristoski, 'St. Kliment Ohridski' University - Bitola, Faculty of Economics,
	Prilep, Macedonia
15.40-15.50	LOWCOST CONVERSION OF A CLASSIC CAR IN A ELECTRIC VEHICLE
	Aleksandar Stjepanović, Goran Kuzmić , University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
15.50-17.40	LOGISTICS - Conference hall 2
15.50-16.00	IMPLEMENTATION OF THE DRY PORT CONCEPT IN THE WEST BALKANS REGION
	Snežana Tadić, Milovan Kovač, Slobodan Zečević, Mladen Krstić, University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
16.00-16.10	TRANSPORT QUALITY MANAGEMENT
	Maria Vodenicharova, UNWE, Department of Logistics and Supply Chains, Bulgaria
16.10-16.20	DIGITAL TRANSFORMATION AS A FACTOR OF EFFICIENT DEVELOPMENT OF LOGISTICS SYSTEMS
	Abidin Deljanin, Fadila Kiso, Mirza Berković , Univesity of Sarajevo, Faculty of Transport and Communications, Bosnia and Herzegovina
16.20-16.30	FEASIBILITY OF LOGISTICAL MODEL OF COMMUNAL WASTE MANAGEMENT
	Nikolche D. Talevski, ELEM – REK Bitola, Macedonia Lya Dybodki, University St. Vliment Obsidski Bitola, Engulty of Tashvingl Sciences
	Ivo Dukoski, University St. Kliment Ohridski Bitola, Faculty of Technical Sciences, Macedonia
16.30-16.40	LOGISTICS PARAMETERS OF THE NON-PEDESTRIAN PART OF THE CENTRAL CITY ZONE
	Snežana Tadić, Mladen Krstić, Strahinja Đorić , University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
16.40-16.50	DETERMINATION OF KEY FACTORS AFFECTING TRANSIENT SEAPORT SELECTION FOR LANDLOCKED COUNTRIES IN AFRICAN CONTINENT Ibrahim Badi , Misurata University, Mechanical Engineering Depatement, Libya Dragan Pamucar , University of Defence in Belgrade, Department of Logistics, Serbia

16.50-17.00	00 SWOT ANALYSIS OF THE BUSINESS OPERATIONS OF THE COMPANY EURO LIMUN D.O.O. DOBOJ	
	Biljana Mićić, 'Trade Trans terminal Doboj', Bosnia and I	o .
	Slađan Davidović, 'Euro Limun Doboj', Bosnia and Herze	egovina
17.00-17.10	MACHINE LEARNING - APPLICATION IN LOGISTIC	S
	Slađana Janković, Stefan Zdravković, Snežana Mladen Ana Uzelac, University of Belgrade, Faculty of Transport Serbia	
17.10-17.20	0 EVALUATING EFFICIENCY OF LOGISTICS PERFORMANCE BY USING RADIAL AND NON-RADIAL DEA MODELS	
	Predrag Ralević, Technical College of Applied Sciences U	Iroševac, Serbia
	Mladenka Blagojević, University of Belgrade, Faculty of	Transport and Traffic
	Engineering, Serbia	
	Sanja Ilić, 'Rico training centre', Serbia	
17.20-17.30	TECHNICAL TECHNOLOGICAL CHARACTERISTICS OF DELHAIZE STARA PAZOVA DISTRIBUTION CENTER	
	Rade Petrović, Marko Vasiljević, Željko Stjepanović, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina	
17.30-17.40	TRADE TRANS RAILPORT INTERMODAL TERMINAL – LOCATION DETERMINATION MODEL	
	Biljana Mićić, 'Trade Trans terminal Doboj', Bosnia and I	Harzagovina
	Bijana Wick, Trade Trans terminat Boooj, Boshia and I	Herzegovina
		X
20.00	GALA DINNER	Restaurant HARIZMA,
		Cara Dušana, Doboj

CONFERENCE PROGRAM – 30th November 2019



Faculty of Transport and Traffic Engineering Doboj, Vojvode Mišića 52, Doboj

SESSIONS - parallel sections

	SESSIONS – parallel sections	
09.30-13.20	URBAN AND ROAD TRANSPORT AND TRAFFIC - Amphitheatre 1	
09.30-09.40 REACTION BEHAVIOUR OF DRIVERS TO MARKED AND UNMARKED ROAD: GHANA PERSPECTIVE Jacob Adedayo Adedeji, Thywill Cephas Dzogbewu, Central University of Technology, Bloemfontein, Republic of South Africa		
	Xoliswa E. Feikie, Department of Civil Engineering and Geomatics, Durban University of Technology, Republic of South Africa	
	Mohamed M. H. Mostafa, Department of Civil Engineering, University of KwaZulu Natal, Durban, Republic of South Africa	
09.40-09.50	MODEL FOR THE ASSESSMENT OF LINE OPERATION IN INTERMEDIATE PASSENGER TRANSPORT	
	Milica Miličić, Pavle Gladović, Tatjana Savković, Ivana Milenković, University of Novi Sad, Faculty of Technical Sciences, Department of Traffic Engineering, Serbia	
09.50-10.00	REVIEW OF THE APPLICABLE METHODS IN ROUTING VEHICLES OF DANGEROUS GOODS	
	Vladimir Stojković, Siniša Sremac, Ilija Tanackov, Gordan Stojić, University of Novi Sad, Faculty of Technical Sciences, Serbia	
10.00-10.10	THE PROBLEM WITH VEHICLES MOVEMENT THROUGH A ROUNDABOUT Bojan Marić , Nenad Branković , <i>University of East Sarajevo</i> , <i>Faculty of Transport and Traffic Engineering Doboj</i> , <i>Bosnia and Herzegovina</i>	
10.10-10.20	IMPACT OF MODERN SYSTEMS ON IMPROVING SAFETY FEATURES OF COMMERCIAL VEHICLES	
	Dušan Mladenović, Krsto Lipovac, Ivan Ivković, Dragan Sekulić, Đorđe Stanisavljević, University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia	
10.20-10.30	EFFECT OF ACCESS POINTS ON CONDITIONS OF VEHICULAR MOVEMENTS IN TRAFFIC FLOW	
	Marko Subotić, Dunja Radović, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina	
10.30-10.40	RESEARCH OF THE EXPECTED QUALITY OF SERVICE IN TAXI TRANSPORT SYSTEM IN CITY OF KIKINDA	
	Andrea Nad, Slaven M. Tica, Predrag Živanović, Stanko Bajčetić, Branko Milovanović, University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia	
10.40-10.50	LEGAL FRAMEWORK IN BOSNIA AND HERZEGOVINA IN THE FUNCTION OF SUCSESFULL REALIZATION OF INLAND AND INTERNATIONAL OVERSIZED TRANSPORT OF GOODS	
	Osman Lindov , Faculty of Transport and Communications, Univesity of Sarajevo, Bosnia and Herzegovina	
	Samir Džaferović, Ministry of Communications and Transport, Bosnia and Herzegovina	

	10.50-11.00	INFLUENCE OF WEATHER CONDITIONS ON REAL OPERATION VEHICLE ON THE HIGHWAY SECTION '9. JANUARY'
		Milan Milinković, Enterprise 'Autoputevi Republike Srpske', Banja Luka, Bosnia and Herzegovina
ĺ	11.00-11.30	COFFEE BREAK
	11.30-11.40	STRATEGIES IN FUNCTION OF ROAD SAFETY MANAGEMENT-ANALYSIS OF EXISTING ROAD SAFETY STRATEGY IN THE REGION
		Miroslav Đerić, Zoran Andrić, Ministry of Communications and Transport, Bosnia and Herzegovina
l	11.40-11.50	GLOBAL TRENDS IN TRANSPORTATION OF GOODS AND LOAD UNITS
		Stefan Stanković , University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
	11.50-12.00	ANALYSIS OF TRAFFIC SIGNALIZATION AT LOCATION OF TRIVE AMELICE AND DR MLADEN STOJANOVIC IN BANJA LUKA
		Radenka Bjelošević , University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
		Aleksandar Đukić , Republic Administration for Inspection Activities, Republic of Srpska Inspectorate, Bosnia and Herzegovina
		Dragan Gatarić, SW Health Center Banja Luka, Bosnia and Herzegovina
		Branko Aleksić, Milan Sandić, 'HKP CONSULTING', Bosnia and Herzegovina
I		Dejana Pajić, 'AMD TB', Brod, Bosnia and Herzegovina
	12.00-12.10	TRANSPORTATION OF DANGEROUS GOODS CLASS 1 - PROBLEMS AND SOLUTIONS
		Nenad Smiljanić, Siniša Sremac, University of Novi Sad, Faculty of Technical Sciences, Department of Traffic Engineering, Serbia
		Tanja Arsić, 'ADR ASPEKT', Serbia
I		Jovan Mišić, Collage of Applied Tehnical Sciences Niš, Serbia
	12.10-12.20	MODEL OF PEDESTRIAN SPEED ON SIGNALIZED CROSSWALKS
		Dragana Nenadić, Jovana Božanović, Mirsada Ćorić , University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
	12.20-12.30	EVALUATION OF CONDITIONS IN THE TRAFFIC FLOW ON THE CROSSROAD OF THE MAIN ROAD M4 AND MILUTIN MILANKOVIC BOULEVARD IN BANJA LUKA
		Radenka Bjelošević, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
		Dragan Gatarić, SW Health Center Banja Luka, Bosnia and Herzegovina
		Aleksandar Đukić, Republic Administration for Inspection Activities, Republic of
		Srpska Inspectorate, Bosnia and Herzegovina
		Milan Sandić, 'HKP CONSULTING', Bosnia and Herzegovina
		Mladen Pajić, 'Oil refinery Brod JSC', Bosnia and Herzegovina
		Stojan Stevanović , Department of Housing and Utilities, Zvornik, Bosnia and Herzegovina
	12.30-12.40	STRESS AS A CAUSE OF TRAFFIC ACCIDENTS
		Tihomir Đurić, Edita Tenić, University of East Sarajevo, Faculty of Transport and
I		Traffic Engineering Doboj, Bosnia and Herzegovina

12.40-12.50	IMPLEMENTATION OF THE ZIGBEE PLATFORM AS AN ASSISTANT TO DRIVERS FROM THE SAFETY ASPECTS OF TRAFFIC PARTICIPANTS Miroslav Kostadinović, Nataša Đalić, Amer Sarajlic, Emir Peco, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
12.50-13.00	INFLUENCE OF THE STRUCTURE OF THE TRAFFIC FLOW ON THE PERMEABILITY OF TWO-WAY ROADS ON FALL
	Goran Bošnjak, Srđan Bogdanović, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
13.00-13.10	ANALYSIS OF THE CONTROL OF LIGHTING DEVICES ON CARS AT TARGETED GROUPS OF VEHICLES ON TECHNICAL INSPECTION
	Vladan Blagojević, Marko Kovačević, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
13.00-13.20	ANALYSIS OF STATIONARY TRAFFIC AT PARKING 'PALAS' IN BANJA LUKA
	Branko Aleksić, 'HKP CONSULTING', Bosnia and Herzegovina
	Stojan Stevanović, Department of Housing and Utilities, Zvornik, Bosnia and Herzegovina
	Dejana Pajić, 'AMD TB DOO BROD', Bosnia and Herzegovina
	Mladen Pajić, 'Oil refinery Brod JSC', Bosnia and Herzegovina
	Zdravko Tutnjević, 'AGRAM', Doboj, Bosnia and Herzegovina
	Marko Kovačević, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
09.30-12.50	RAILWAY TRANSPORT AND TRAFFIC - Amphitheatre 2
09.30-09.40	MEASURING THE EFFICIENCY OF THE RAILWAY UNDERTAKING BY APPLICATION OF FUZZY LOGIC
	Aleksandar Blagojević, Branislav Gavrilović, Zoran Bundalo, High Railway School of Vocational Studies, Serbia
	Slavko Vesković , University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
	Sanja Simić, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
09.40-09.50	BIR AND TEN-T, COMPETITION OR COOPERATION?
	Miroslav Prokić, Miloš Stanojević, University of Belgrade, Faculty of Transport
	and Traffic Engineering, Serbia
09.50-10.00	• • • • • • • • • • • • • • • • • • • •
09.50-10.00	and Traffic Engineering, Serbia EU-CHINA RAIL ECONOMIC CORRIDORS AND THEIR ROLE IN TRADE IN GOODS Miroslav Prokić, University of Belgrade, Faculty of Transport and Traffic
09.50-10.00	and Traffic Engineering, Serbia EU-CHINA RAIL ECONOMIC CORRIDORS AND THEIR ROLE IN TRADE IN GOODS

10.00-10.10	CHARGES FOR TRAIN TOWING – PLACE OF CONFRONTATION OF REGULATION OF RAILWAY AND ENERGY SECTOR
	Vladimir Malčić, Ratko Đuričić , University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
	Branislav Bošković , University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
10.10-10.20	HOW DOES THE PROBLEM APPROACH IMPROVE THE SOLUTION OF THE MODELING PROBLEM IN TRANSPORT
	Rade Cvijanović, 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
10.20-10.30	IMPROVEMENTS IN CONTROL AND TRANSFER OF DATA OF RAILWAY ELECTRIC TRACTION SUBSTATIONS USING ABB RTU560 DEVICE
	Goran Stevanović, Nebojša Tomić, Mario Danilović, Railway of RS, Doboj, Bosnia and Herzegovina
10.30-10.40	INTERACTIVE MOTION TRACKING DIAGRAMS TO HELP ENGINEERS IN DECISION-MAKING WHILE DRIVING
	Dušan Vujović, High Railway School of Vocational Studies, Serbia
	Norbert Pavlović , University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
10.40-10.50	MODERNIZATION OF THE SIGNALING AND SAFETY SYSTEM ON DOBOJ - BANJA LUKA RAILWAY SECTION
	Borislav Popović, Dragan Žigić, Mario Danilović , Railway of RS, Doboj, Bosnia and Herzegovina
10.50-11.00	PLANNING AND DESIGN OF NARROW GAUGE RAILWAY FROM STAPARI TO BIOSKA USING ADVANCED SOFTWARE SOLUTIONS
	Danijel Savković, Nemanja Lošić, Miloš S. Ivić, Ivan Belošević, Milana Kosijer, University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
11.00-11.30	COFFEE BREAK
11.30-11.40	APPLICATION OF RAILWAY TRAFFIC COMMUNICATIONS VIA PUBLIC GSM NETWORK
	Nebojša Tomić, Dragan Žigić, Railway of RS, Doboj, Bosnia and Herzegovina Jovan Gojić, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
11.40-11.50	MULTI-CRITERIA FUCOM-MABAC MODEL FOR THE SELECTION OF TANK WAGON FOR TRANSPORT OF THE WHITE OIL DERIVATIVES
	Milan Milosavljević, Sandra Kasalica, Goran Tričković, High Railway School of Vocational Studies, Serbia
11.50-12.00	PARAMETER ESTIMATION OF PAIRS IN LINESIDE RAILWAY CABLE FOR SHDSL APPLICATIONS
	Jevtić Sanja, Bursać Marko, High Railway School of Vocational Studies, Serbia
	Jevtić Dragan, Affiliation Infrastrucure of Serbian Railways, Serbia
	Ilić Ana, Institute of Transportation, Serbia

12.00-12.10	MODEL OF E-EDUCATION AND INFORMATION ON THE CASE OF RAILWAY TARIFFS
	Zoran Pavlović , University of Belgrade, Faculty of Organizational Sciences, Serbia Zoran Bundalo , The school of railway applied studies – Belgrade, Serbia
12.10-12.20	IMPROVEMENT OF WORKING TECHNOLOGY IN SODA FACTORY LUKAVAC FOR INCREASING THE PARTICIPATION OF RAILWAY TRANSPORT Selmir Delić, Aldin Glumčević, Hidajet Đulović , <i>University of East Sarajevo</i> ,
12 20 12 20	Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
12.20-12.30	MAAS IN EU RESEARCH PROJECTS OF IMPORTANCE FOR THE DEVELOPMENT OF RAILWAY
	Teodora Milenković, Aleksandar Filipović , <i>University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia</i>
12.30-12.40	BIG DATA IN EU FUNDS RESEARCH PROJECTS WHICH SUPPORTING RAILWAY DEVELOPMENT
	Aleksandar Filipović, Teodora Milenković, Branisalv Bošković, University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
12.40-12.50	STUDENT'S AND YOUNG PEOPLE'S INTEREST IN BEING A TRAIN DRIVER
	Nemanja Stevanović , University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
12.50-13.00	WATER TRAFFIC - Amphitheatre 2
12.50-13.00	MATHEMATICS IN THE SHIP'S ROLLING MECHANISM OBSERVED AS A SET OF ELECTONIC FILTERS
	SELUE ELECTUNIC ELLEKS
	Tatjana Stanivuk, Marina Laušić, Petar Milat, Faculty of Maritime Studies, Croatia Petra Zemunik, Institute of Oceanography and Fisheries, Croatia
	Tatjana Stanivuk, Marina Laušić, Petar Milat, Faculty of Maritime Studies, Croatia Petra Zemunik, Institute of Oceanography and Fisheries, Croatia
09.30-11.10	Tatjana Stanivuk, Marina Laušić, Petar Milat, Faculty of Maritime Studies, Croatia Petra Zemunik, Institute of Oceanography and Fisheries, Croatia
09.30-11.10 09.30-09.40	Tatjana Stanivuk, Marina Laušić, Petar Milat, Faculty of Maritime Studies, Croatia Petra Zemunik, Institute of Oceanography and Fisheries, Croatia MOTOR VEHICLES – Room 16 SAFETY OF USING GAS DEVICES IN VEHICLES
	Tatjana Stanivuk, Marina Laušić, Petar Milat, Faculty of Maritime Studies, Croatia Petra Zemunik, Institute of Oceanography and Fisheries, Croatia MOTOR VEHICLES – Room 16 SAFETY OF USING GAS DEVICES IN VEHICLES TripoTorović, Željko Tomić, Institute for Occupational Safety, Novi Sad, Serbia Milan Milotić, Borislav Gojković, University of East Sarajevo, Faculty of Transport
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09.30-09.40	Tatjana Stanivuk, Marina Laušić, Petar Milat, Faculty of Maritime Studies, Croatia Petra Zemunik, Institute of Oceanography and Fisheries, Croatia MOTOR VEHICLES – Room 16 SAFETY OF USING GAS DEVICES IN VEHICLES TripoTorović, Željko Tomić, Institute for Occupational Safety, Novi Sad, Serbia Milan Milotić, Borislav Gojković, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
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09.30-09.40 09.40-09.50	Petra Zemunik, Marina Laušić, Petar Milat, Faculty of Maritime Studies, Croatia Petra Zemunik, Institute of Oceanography and Fisheries, Croatia MOTOR VEHICLES – Room 16 SAFETY OF USING GAS DEVICES IN VEHICLES TripoTorović, Željko Tomić, Institute for Occupational Safety, Novi Sad, Serbia Milan Milotić, Borislav Gojković, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina ANALYSIS OF FACTORS AFFECTING DAMPING PROPERTIES AND ECONOMICITY OF HYDRODYNAMIC TRANSMISSIONS OF MOTOR VEHICLES Vojislav Krstić, University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia Ranko Božićković, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina Božidar Krstić, University of Kragujevac, Faculty of Engineering, Serbia OPTIMIZING THE PREVENTIVE MAINTENANCE OF THE ENGINE COOLING SYSTEM Vojislav Krstić, University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia
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	10.00-10.10	EXPLORING THE POSSIBILITY OF REDUCING HARMFUL EXHAUST GASES FROM MOTOR VEHICLES
		Ana Bonić, Miloš Simić, Borislav Gojković, University of East Sarajevo, Faculty of
		Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
	10.10-10.20	TESTING TRACTION CHARACTERISTICS OF VEHICLES DRIVED BY
		LIQUID PETROLEUM GAS
		Miroslav Pavlović, Svetko Milutinović, Boško Đukić, Zoran Ristikić, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, B&H
	10.20-10.30	INTERACTION BETWEEN SUSTAINABLE MOBILITY AND ECONOMIC DEVELOPMENT IN BOSNIA AND HERZEGOVINA
		Abidin Deljanin, Fadila Kiso, University of Sarajevo, Faculty of traffic and communications, Bosnia and Herzegovina
		Emir Deljanin , IFSTTAR-Nantes, Allée des Ponts et chaussées - CS4, Bouguenais Cedex, France
	10.30-10.40	TESTING REVITALIZATION OF WASTE TRANSFORMER OIL IN BOSNIA AND HERZEGOVINA
		Dragiša Đorđić, University of Novi Sad, Faculty of Technical Sciences, Serbia
		Milan Milotić, Slavko Đurić, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
	10.40-10.50	DIVERSIFICATION OF GAS TRANSPORTATION ROUTES AND SOURCES FOR GAS HUB BALKAN
		Roumen A. Ivanov, Higher School of Transport 'T. Kableshkov', Bulgaria
	10.50-11.00	REFLEXION OF FIXED COSTS ON BUSINESS RESULT AND RISK OF ACHIEVEMENT OF THE BUSINESS PROFIT OF THE COMPANY
		Slobodan Subotić, Živko Erceg, Irena Đalić, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
	11.00-11.10	RESEARCH OF THE REGIONAL CONCENTRATION OF THE TRANSPORT ACTIVITY IN THE REPUBLIC OF SRPSKA
		Sinisa Božičković, Irena Đalić, Zdravko Božičković, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
		Goran Mitrović, 'Drina osiguranje', Bosnia and Herzegovina
		Dragan Anđelić, 'Šume Republike Srpske', Bosnia and Herzegovina
	11.10-11.30	COFFEE BREAK
	11.30-13.00	TELECOMMUNICATIONS TRANSPORT AND TRAFFIC, POSTAL
		TRAFFIC and INFORMATICS - Room 16
	11.30-11.40	UNMANNED AEIRAL VEHICLE APPLICATIONS IN URBAN
		ENVIRONMENTS
		Gordana Jotanović, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
		Vladimir Brtka, Eleonora Brtka, Vesna Makitan, University of Novi Sad,
		Technical faculty 'Mihajlo Pupin', Zrenjanin, Serbia
	11.40-11.50	NETWORKING MODEL OF MECHATRONIC VEHICLE SYSTEMS
	11.40 11.50	Miroslav Kostadinović, Nataša Đalić, Amela Jukan, Emir Peco, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, B&H
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11.50-12.00	IMPLEMENTATION OF CONTEMPORARY IOT TECHNOLOGY IN CONTROL AND MANAGEMENT OF ROBOT HANDS DIRECTED ON 3D PRINTER Aleksandar Stjepanović, Goran Kuzmić, Mirko Stojčić, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
12.00-12.10	ADAPTIVE NEURO-FUZZY MODEL FOR INDOOR WI-FI SIGNAL STRENGTH PREDICTION
	Mirko Stojčić, Žarko Jovanović, Siniša Božičković, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
	Milorad K. Banjanin, University of East Sarajevo, Faculty of Philosophy, Pale, Bosnia and Herzegovina
12.10-12.20	IMPROVING THE PASSIVE SECURITY
	Adrian Wagner, Philipp Graf, Frank Michelberger, Carl Ritter von Ghega Institute for Integrated Mobility Research, Austria
12.20-12.30	FREIGHT SIGNAL PRIORITY OPERATIONS IN CONNECTED VEHICLE ENVIRONMENT
	Zorica Cvijovic, Milan Zlatkovic, University of Wyoming, USA
12.30-12.40	PHASES OF IMPLEMENTATION RFID TECHNOLOGY IN LOGISTIC SYSTEMS
	Žarko Jovanović , University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
	Dejan Danilović, UNDP Bosnia and Herzegovina
12.40-12.50	APPLICATION OF SMART SIGNALIZATION IN ORDER TO INCREASE THE SAFETY OF TRAFFIC PARTICIPANTS
	Aleksandar Damjanović, Maida Babić, Emira Hodžić, Bojan Cvijanović,
	Branko Jotanović , University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
12.50-13.00	IMPROVING THE QUALITY OF TRAFFIC BY USING THE IOT CONCEPT
	Slobodan Nešić, Harisa Mujakić, Milan Gajanović, Milanko Petrović, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina

WORKSHOP - Smart and IoT technologies in transportation and communications	
Room 10	PACKING OPTIMIZATION SOLVER
10.00-11.00	Goran Jauševac, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
	Emir Ahmetović, Software develope, Codecentric, Bosnia and Herzegovina
Room 24	KEY ENABLING COMMUNICATION TECHNOLOGIES FOR SUPPORT OF TRAFFIC APPLICATIONS IN SMART CITIES
10.00-11.00	Gordana Jotanović, University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
	Dalibor Dobrilović , University of Novi Sad, Technical faculty 'Mihajlo Pupin', Zrenjanin, Serbia
Room 13	IMPLEMENTATION OF CONTEMPORARY IOT TECHNOLOGY IN CONTROL AND MANAGEMENT OF ROBOT
10.00-11.00	Aleksandar Stjepanović, Mirko Stojčić , University of East Sarajevo, Faculty of Transport and Traffic Engineering Doboj, Bosnia and Herzegovina
13.30	CONFERENCE CLOSING - Amphitheatre 1

VII INTERNATIONAL SYMPOSIUM NEW HORIZONS 2019 OF TRANSPORT AND COMMUNICATIONS





ВЛАДА РЕПУБЛИКЕ СРПСКЕ













