

University of East Sarajevo
**Faculty of Transport and
Traffic Engineering Dobož**

X International Scientific Conference

NEW HORIZONS 2025

of Transport and Communications - TransportaCom
05-08 November



WELCOME TO THE CONFERENCE

Program of the **X International Scientific
Conference NEW HORIZONS 2025 of
Transport and Communications
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Wednesday 5.11.2025			
15:00-17:00	Welcoming guests		Hotel Park Doboj, Kneza Lazara 2
17:00-17:45	Registration of participants		
17:45-18:00	Transfer from Hotel Park to Faculty		
18:00-21:00	Welcome cocktail		Faculty of Transport and Traffic Engineering, Vojvode Mišića 52
Thursday 06.11.2025. Hotel Park Doboj, Kneza Lazara 2			
Room - Golden gate			
09:00-10:00	Registration of participants		
10:00-10:45	Open ceremony		
10:45-11:00	Break		
11:00-12:00	Sponsor session and invited talks		
11:00-11:15	Key Misconceptions in the Development of Electromobility and EV Infrastructure		Tarik Šabanović, Porsche BH doo
11:15-11:30	Digital Transformation of Postal Services: The Role of Parcel Lockers, Robotics, and Artificial Intelligence in Modern Logistics		Zoran Anđelković, Acting Director of PE Post of Serbia
11:30-11:40	Gold sponsor - Railtrans International, a.s. Slovakia		Marián Jožič, Director of business development at Railtrans International, a.s. Slovakia
11:40-11:50	Overview of the DGTRANS project results		Nebojša Arsić, UPKM rector and project coordinator
11:50-11:55	Adopting CCAM2ZERO through ADRION Programmed Partnerships		Božidar Popović, University of East Sarajevo, dean of FEE
11:55-12:00	Awarding certificates of appreciation to sponsors, and supporting institutions		Government of RS, RTI, X Express, Porsche BH doo, Cargo Vagon, Euro Limun, Global Rail Group, Chamber of Commerce and Industry of RS, Logistic Agent, Auto and moto organizations of RS, City of Doboj, Mtel, Ministry of Scientific and Technological Development and Higher Education of RS
12:00-12:30	Coffee break		
12:30-13:45	Plenary session		
	Chair: Željko Stević (B&H) and Dillip Kumar Das (South Africa)		
12:30-12:50	21	Structural Digital Twins for Vehicles and Infrastructures	Georgios E. Stavroulakis, Ioannis Natsios, Greece
12:50-13:10	45	Investigating Impacts of Connected Vehicle Communications in Multimodal Environment through High-Fidelity Virtual Reality Modeling	Aleksandar Stevanovic, Marko Vukojevic, Ismet Goksad Erdagi, USA
13:10-13:30	93	MaaS Personalisation: Making Public Transport More Convenient for Everyone	Irina Yatskiv (Jackiva), Francesco Maria Turno, Latvia, Germany
13:30-13:45	Discussion		
13:45-14:30	Lunch		
Room - Golden gate			
14:30-15:40	Road Transport and Traffic		
	Chair: Aleksandar Stevanović (USA) and Draženko Glavić (Serbia)		
14:30-14:40	7	Determining service and waiting times at ticket counters at the bus terminal in Novi Sad	Milja Simeunović, Nenad Saulić, Pavle Pitka, Zoran Papić, Serbia
14:40-14:50	14	Evaluation of pedestrian crossings in Doboj based on dashboard camcorder recordings	Ivan Rumbočić, Bojan Marić, Darko Babić, Tomasz E. Burghardt, Croatia, B&H, Austria
14:50-15:00	18	Toll Motorways Avoidance and Policy Implications	Draženko Glavić, Marina Milenković, Miloš Petković, Aleksandar Stevanovic, Serbia, USA
15:00-15:10	65	Investigation of the Capacity of the Mixed Lane at a Signalized Intersection Based on the Impact of Light Freight Vehicles	Miroslav Đerić, Edis Softić, Marko Subotić, B&H
15:10-15:20	67	Traffic signs by the roadside Taxonomies driven by the evolution of technology	Miroslav Petrović, Dušan Mladenović, Mladen Nedeljkov
15:20-15:30	88	Road Traffic Accident Analysis using Machine Learning Techniques: A Context of an African City	P. T. Adeke, D. K. Das, M. M. H. Mostafa, P. A. Ochayi, South Africa, Nigeria
15:30-15:40	117	Vibration control using shunted piezoelectric systems: Experimental Investigation	Konstantinos Marakakis, Maria-Styliani Daraki, Evangelos Synnefakis, Konstantinos Igglezakis, Georgios E. Stavroulakis, Greece

Room - Ariana			
Railway Transport			
14:30-15:50	Chair: Borna Abramović (Croatia) and Gordan Stojić (Serbia)		
14:30-14:40	13	Assessment of delay propagation effects within the framework of Track Access Charges and performance regimes in European rail networks	Peyman Asmari, Stefano Ricci, Italy
14:40-14:50	17	A modification of a suspension system of a diesel multiple unit to improve passenger ride comfort	Ján Dižo, Alyona Lovska, Miroslav Blatnický, Martin Bučko, Slovakia
14:50-15:00	19	Hybrid traction systems for the Zillertal Railway in Austria	Manfred Vohla, Andreas Schöbel, Austria
15:00-15:10	20	Research of strength of a modernized flat wagon structure for long cargo	Juraj Gerlici, Alyona Lovska, Ján Dižo, Mykhailo Pavliuchenkov, Slovakia, Ukraine
15:10-15:20	26	Benchmarking and strategic analysis of metro system; Enhancing sustainability and efficiency	Pradip Subedi, Stefano Ricci, Italy
15:20-15:30	61	Optimization of Human Resources in the Railway Sector: A Case Study of HŽ Infrastruktura	Drago Pupavac, Ljudevit Krpan, Croatia
15:30-15:40	75	Indicators of the Development of the European Union Railway Freight Transport Market	Kristijan Solina, Borna Abramović, Croatia
15:40-15:50	84	Design recommendations for level crossings located on track curves	Luka Lazarević, Zdenka Popović, Serbia
15:50-16:00	Break		
Room - Golden gate			
Logistics and supply chain management, Operations research in transport			
16:00-17:30	Chair: Ömer Faruk Görçün (Turkey) and Mladen Krstić (Serbia)		
16:00-16:10	33	Application of Multi-Criteria Analysis for rail alignment relocation: a case study of Jagodina	Jasmina Stanišić, Nikola Ristić, Dragan Đorđević, Serbia
16:10-16:20	36	A Hybrid IVN-CODAS Model for Ranking Electric Hatchback Cars: Application with Extensive Weight Sensitivity Analysis	Mahmut Baydaş, Abdullah Özçil, Željko Stević, Zhiyuan Wang, Turkey, B&H, Republic of Korea, Singapore
16:20-16:30	47	Application of Models for Determining the Optimal Number of Taxi Vehicles – Case Study Aleksinac	Jovan Mišić, Pavle Pitka, Vladimir Popović, Milan Stanković, Nikola Dimitrijević, Serbia
16:30-16:40	49	Trends in Reverse Logistics Management with a Focus on Transport Infrastructure Construction Using Recycled Materials	Boris Novarlić, Draženko Bjelić, Scott E. Crosset, Predrag Đurić, Vladimir Marković, B&H, Scotland
16:40-16:50	52	Integrated Assessment of Regional Road Transport Efficiency: Environmental and Operational Perspectives	Mozhgan Mansouri Kaleibar, Evelin Krmac, Slovenia
16:50-17:00	77	The Evolution of Logistics Resilience: A Systematic Literature Review and Thematic Analysis of Global Research Trends	Adriana-Valentina Radu, Romania
17:00-17:10	82	Evaluating the Impact of Independent Auditing on the Sustainability Performance of Freight Transportation in a Type-2 Neutrosophic Fuzzy Environment	Ömer Faruk Görçün, Cem Niyazi Durmuş, Sefer Şener, Mustafa Çanakçıoğlu, Turkey
17:10-17:20	83	ESCO model for communal enterprises in Bosnia and Herzegovina: Case study of the City of Doboј	Draženko Bjelić, Boris Novarlić, Tijana Đuričić, Borislav N. Malinović, B&H
17:20-17:30	114	Evaluation of the Balkan countries of efficiency Logistics Performance index	Adis Puška, Jurica Bosna, B&H, Croatia
Room - Ariana			
Maritime Transport, Postal traffic and networks, Transport of dangerous goods			
16:00-17:10	Chair: Maciej Gućma (Poland) and Evelin Krmac (Slovenia)		
16:00-16:10	87-99	Ranking of Criteria for Selected Montenegrin Ports in the Development of Innovative Technologies - Unmanned Vessels in Maritime Transport	Slavica Z. Milić, Dragana V. Macura, Mirjana D. Grdinić Rakonjac, Vladimir M. Ilić, Montenegro, Serbia
16:10-16:20	107	Enhancing Ship Traffic Capacity with Microscopic Modelling: The Świnoujście–Szczecin Waterway Case Study	Lucjan Gućma, Maciej Gućma, Marko Perković, Poland, Slovenia
16:20-16:30	113	Bridge Safety: Application for Real-Time HR Streaming	Dejan Žagar, Matej Bažec, Franc Dimc, Marko Perković, Slovenia
16:30-16:40	115	SpillSim – A Simulation Tool for Oil Spills in Marine Environments	Kinga Łazuga, Poland

16:40-16:50	43	Machine Learning Models for the Classification of Parcel Arrival Rate in a Regional Postal Center	Mirko Stojčić, Milorad K. Banjanin, Đorđe Popović, Maid Husić, B&H
16:50-17:00	66	Selection of suitable locations for the installation of parcel lockers in the area of the Prijedor distribution center	Eldina Huskanović, Danira Durmić, Medina Fetić, Marko Blagojević, Marijana Ilić, Kristijan Lukić, B&H
17:00-17:10	100	Assessing the Resilience of Dangerous Goods Transport Systems in Urban Areas: Evidence from Novi Sad	Marko Veličković, Siniša Sremac, Boško Matović, Serbia, Montenegro
17:30-19:00	Free time		
19:00-01:00	Gala dinner		
Friday 07.11.2025. Faculty of Transport and Traffic Engineering Doboj, Vojvode Mišića 52			
Room 1			
11:00-12:30	Road Transport and Traffic		
	Chair: Milan Tešić (B&H) and Boško Matović (Montenegro)		
11:00-11:10	6	Comparative assessment of road safety performance: the case of the Republic of Srpska and surroundings	Dragan Stanimirović, Aleksandar Đukić, Mirjana Dakić, Boško Matović, Spasoje Mičić, B&H, Montenegro
11:10-11:20	28	Analysis of the Impact of Road Network Noise on Animal Populations, Ecological Consequences, and Protective Measures	Dragiša Đorđić, Slavko Đurić, Mirjana Čeranić, Milan Milotić, B&H, Serbia
11:20-11:30	30	An Analysis of Novice Drivers’ Unpredictable Behavior	Vuk Bogdanović, Dunja Radović Stojčić, Bojan Marić, Bojan Kalabić, Serbia, B&H
11:30-11:40	41	Enhancing Traffic Planning Process by Incorporating Driver Experience: A Fuzzy-Logic Approach	Milan Pavlović, Stefan Mihajlović, Nenad Ruškić, Dušan Radosavljević, Serbia
11:40-11:50	42	Comparative analysis of traffic flow at intersections: A case study of roundabout in the city of Niš	Stefan Mihajlović, Nenad Ruškić, Jovan Mišić, Serbia
11:50-12:00	63	Analysis of Risk Factors and Consequences of Traffic Accidents Involving Vulnerable Road Users	Dragan Stanimirović, Radenka Đekić, Goran Bošnjak, Marko Golić, B&H
12:00-12:10	95-102	Highways with Electric Infrastructure for In-Motion Charging of Electric Vehicles	Lidija Arsenić, B&H
12:10-12:20	103	A Review of Volume-Delay Functions and Calibration Methods Considering Local and Weather Conditions	Teodora Kovačević, Jasmina Sikira, Valentina Mirović, B&H, Serbia
12:20-12:30	116	The influence of biodiesel fuel on the operating characteristics of the internal combustion engine at a cold start	Milan Eremija, Svetko Milutinovic, Zoran Ristikic, B&H
Room 2			
11:00-12:10	Railway Transport		
	Chair: Stefano Ricci (Italy) and Slavko Vesković (Serbia)		
11:00-11:10	5	Regulatory Framework for Visibility Zones at Level Crossings	Gordan Stojić, Jovo Milanović, Siniša Sremac, Vukašin Bursać, Nenad Mrđenović, Serbia
11:10-11:20	8	Analysis of changes in train ticket prices in railway transport	Stefana Dragić, Gordan Stojić, Ilija Tanackov, Serbia
11:20-11:30	9	Equal Rules for Unequal Systems? Justifying Special Treatment for Small Railway System in Europe	Vladimir Malčić, Branislav Boskovic, Mirjana Bugarinovic
11:30-11:40	10	The Devil is in the Details: Comparative Insights and a Step Toward Harmonization of Infrastructure Charging Models	Vladimir Malčić, Mirjana Bugarinović, Ratko Đuričić
11:40-11:50	27	Performance Analysis of European Rail Freight Corridors	Miroslav Prokić
11.50-12:00	31	Simulation of Network Resilience: A Case Study of Belgrade Metro	Tihomir Subotić, Branislav Bošković
12:00-12:10	85	RCF Irregularities on the Rail Head – Guidelines for Maintenance	Zdenka Popović, Luka Lazarević, Milica Mičić, Ljiljana Brajović, Serbia
12:30-13:00	Coffee break		
Room 1			
13:00-14:10	Information and communication technologies		
	Chair: Salvatore Antonio Biancardo (Italy) and Suzana Miladić-Tešić (B&H)		
13:00-13:10	2	Possibilities of using artificial intelligence when taking a driving exam	Sandi Božičković, B&H
13:10-13:20	4	Accurate Real-Time Localization in Autonomous Driving: Review of Technologies and Algorithms	Aleksandar Stjepanović, Marko Dragičević, Mirko Stojčić, Goran Kuzmić, Belmin Avdić, B&H

13:20-13:30	23	Transformation in Disaster Technologies: Operational Use, Legal Framework, and Future Strategies of UAVs	Abdil Çöken, Emrah Ayhan, Mahmut Baydaş, Turkey
13:30-13:40	40	Application of Artificial Intelligence in Traffic Safety Education for Children: A Comparative Study Between Expert-Guided and AI-Based Learning Approaches	Aleksandar Trifunović, Dragan Lazarević, Serbia
13:40-13:50	73	Arduino-Based IoT System for Parking Occupancy Detection in Small Urban Areas Using Serial Communication	Goran Jausevac, Svetko Milutinovic, Nikolina Milinkovic, B&H
13:50-14:00	78	A Case Study on the Integration of AI and VPL in Infrastructure-Oriented BIM Processes	Pietro Serra, Mattia Ignitano, Salvatore Antonio Biancardo, Marijo Vidas, Gianluca Dell'Acqua, Italy, Serbia
14:00-14:10	101	Indicator-Based Assessment of Digital Infrastructure in a Regional Context	Suzana Miladić-Tešić, Marina Kovačević, Miroslav Đerić, Novica Draganović, Anđela Tomašević, B&H
Room 2			
13:00-13:50	Logistics and supply chain management		
	<i>Chair: Snežana Tadić (Serbia) and Željko Stević (B&H)</i>		
13:00-13:10	1	An integrated Fuzzy PIPECIA-AROMAN-M model for analyzing the delivery location problem	Željko Stević, Algimantas Danilevičius, Morteza Yazdani, Sarbast Moslem, Dragan Marinković, B&H, Republic of Korea, Lithuania, Spain, Ireland, Germany
13:10-13:20	72	Synergistic effects of organizational processes in logistics	Dimitrije Blagojević, Sandra Kasalica, Aleksandar Blagojević, Marko Blagojević, Goran Tričković, Milan Milosavljević, Serbia, B&H
13:20-13:30	94	Integration of Telematics and Information Systems in Multimodal Logistics Terminals	Dino Zvekic, Luxembourg
13:30-13:40	96	Evaluation of Barriers to the Development of Intermodal Transport: The Case of Bosnia and Herzegovina	Biljana Mičić, Snežana Tadić, Ljubica Radovanović, Mladen Krstić, Miloš Veljović, Violeta Roso, B&H, Serbia, Sweden
13:40-13:50	105	Application of SWARA Method for Identifying Key Performance Indicators in a Transport Company	Eldina Huskanović, Nenad Vasiljević, Sarfaraz Hashemkhani Zolfani, Asad Khattak, B&H, Chile, United Arab Emirates
Room 23			
11:00-16:10	Online session		
	<i>Chair: Željko Stević (B&H), Marko Subotić (B&H), Ömer Faruk Görçün (Turkey), Goran Kuzmić (B&H), Aleksandar Trifunović (Serbia)</i>		
11:00-12:20	Road Transport and Traffic		
11:00-11:10	12	Analytical model for the determination of cyclist throw distance and vehicle speed in mutual collisions	Verche Koneska, Zoran Joshevski, Jasmina Bunevska Talevska, North Macedonia
11:10-11:20	15	Impact of urban planning documentation on traffic safety	Aleksandar Pavlovic, Darija Pavlovic, Serbia
11:20-11:30	16	Modeling of a moped throw distance in frontal collision - Comparative analysis of polynomial, exponential, and power-law functions	Zoran Joshevski, Verche Koneska, North Macedonia
11:30-11:40	22	Evaluating Climatic Vulnerability of Saskatchewan's Road Network Through Inverse Distance Weighting (IDW) and Equal Weighting Approaches	Monirul Islam, Golam Kabir, Canada
11:40-11:50	48	Acceptance and Transferability of Advanced Traveller Information Systems (ATISs) - The Case Study of Novi Sad (Serbia)	Luigi Castagna, Milenko Malešev, Zoran Ivošević, Nemanja Garunović, Vuk Bogdanović, Pierluigi Coppola, Italy, Serbia
11:50-12:00	50	Investigation of Environmental Pollution Caused by Noise Generated from Transportation Operations in Tbilisi	Boris Gitolendia, Valeri Jajanidze, Vasil Abuladze, Colin Rigby, Georgia, UK
12:00-12:10	57-69	Validation of an in-plane two degrees of freedom bus model for lateral dynamics investigation	Dragan Sekulić, Dušan Mladenović, Ivan Ivković, Serbia
12:10-12:20	108	Contemporary Approaches to Traffic Calming: A Review of Measures and Application Possibilities	Vladimir Ilić, Milanko Damjanović, David Gruhonjić, Filip Perović, Milan Andrijašević, Montenegro, Croatia
12:20-12:50	Railway Transport		
12:20-12:30	38	Analysis of rail transportation services and accessibility from the aspect of persons with disabilities: Serbian railway network	Dragan Đorđević, Nikola Ristić, Ana Vulević, Jasmina Stanišić, Serbia

12:30-12:40	39	Policy and Practice for Enhancing Resilience in Railway: The Promise and Pitfalls of IoT Adoption	Rashedul Islam, Golam Kabir, Jebunnesa Jerry, Canada
12:40-12:50	55	Regulatory Frameworks for the Mutualization of Railway Resources in Freight and Passenger Transport	Alexandru-Gabriel Ursu, Romania
12:50-14:00	Logistics and supply chain management		
12:50-13:00	3	Last-Mile Challenges and Trends: Two-Way Impacts on Modern Supply-Chain Dynamics	Mia Poledica, Mladen Božić, Croatia, Serbia
13:00-13:10	51	The Role of the South Caucasus in the Development of the Middle Corridor: Opportunities, Challenges, and Solutions	Revaz G. Tedoradze, Zurab A. Shengelia, Levan M. Bubuteishvili, Irine Ugrekheldidze, Georgia
13:10-13:20	64	Environmental Performance Evaluation of Intermodal Supply Chains Using the EDAS Method	Natalija Kostić, Milorad Kilibarda, Vukašin Pajić, Milan Andrejić, Serbia
13:20-13:30	68	A Graph Database-Based Framework for Evaluating Transfer Robustness in Multimodal Transport Systems	Ilija S. Hristoski, North Macedonia
13:30-13:40	71	Strategic Management of SaaS Shipment-Tracking in Smart Logistics	Taras Mukha, Ukraine
13:40-13:50	79	The future of city logistics: sustainable, autonomous, humane or regulation-based?	Snežana Tadić, Mladen Krstić, Miloš Veljović, Aleksa Maravić, Serbia
13:50-14:00	110	A WENSLO-WEDBA Integrated Approach for Green Supplier Selection	Gabrijela Popović, Darjan Karabašević, Dragiša Stanujkić, Serbia, Republic of Korea
14:00-14:20	Maritime Transport		
14:00-14:10	97	Barriers to Blockchain Technology in Ports: The Case of Samsun Port	Selçuk Korucuk, Ahmet Aytekin, Turkey
14:10-14:20	98	An Application on Evaluating the Elements of Sustainability Performance in Port Operations Using MCDA Methods	Ahmet Ahmet Aytekin, Selçuk Korucuk, Turkey
14:20-14:30	Transport of dangerous goods		
14:20-14:30	74	Numerical Modeling of Liquid Sloshing in Half-Filled Tanks Using the Arbitrary Lagrangian-Eulerian (ALE) Formulation	İsmail Furkan Saruhan, Kadir Kaya, Metin Mutlu Aydın, Turkey
14:30-14:50	Information and communication technologies		
14:30-14:40	86	Fuzzy Logic in Transportation: Navigating Uncertainty for Intelligent Systems	Idriss Dagal, Nasreen Kausar, Mohammed Abdullah Salman, Firas Mohammed, Turkey, Yemen, Qatar
14:40-14:50	89	Integrating Generative Artificial Intelligence and Industry 5.0 for Adaptive Industrial Transportation Systems	Hamed Fazlollahtabar, Iran
14:50-16:10	Operations research in transport		
14:50-15:00	24	Markov Decision Process (MDP) for Autonomous Drone Fleet Management: Optimizing Task Allocation and Flight Paths	Nur Yonar, Safiye Turgay, Nimet Merve Telçeken, Turkey
15:00-15:10	25	Constraint-Based Optimization of EV Routes under Charging Infrastructure Capacity Limits	Damlanur Baradayı, Safiye Turgay, Turkey
15:10-15:20	60	Decision Support for Railway Infrastructure Planning in Libya Using the SIWEC–RAWEC MCDM Framework	Ibrahim Badi, George Baryannis, Mouhamed Bayane Bouraima, Libya, UK, China
15:20-15:30	76	A Study on Apron Minimization for Airport Gate Assignment: Algorithms, Performance, and Real-World Applications	Elif Hazinedar, Esra Bozok, Berkay Gebeş, Metin Mutlu Aydın, Durmuş Özkan Şahin. Turkey
15:30-15:40	81	Optimal Railway Route Selection via Distance Measure on Spherical Fuzzy Soft Set	J. Vimala, R. Karthikeyan, Nasreen Kausar, M. Tamil Vizhi, Mohammed Abdullah Salman, Firas Mohammed, India, Turkey, Yemen, Qatar
15:40-15:50	91	Integrating Queueing Theory and Multi-Criteria Decision-Making for Optimizing Border Crossing Operations	Ibrahim Badi, George Baryannis, Mouhamed Bayane Bouraima, Libya, UK, China
15:50-16:00	92	Testing the Environmental Kuznets Curve in the Context of the Transport Sector	Ivan Mihajlović, Vesna Spasojević Brkić, Ermina Čosović, Serbia
16:00-16:10	118	Web Application for Accident Prediction at Road–Railway Crossings Using a Heterogeneous Queueing System Model	Marko Ercegovac, Pamela Ercegovac, Serbia
14:10-15:50	Lunch		
15:50-17:30	City tour (optional)		
Saturday 08.11.2025. Faculty of Transport and Traffic Engineering Doboj, Vojvode Mišića 52			
11:00-12:00	Conclusion remarks		
12:00-12:15	Closing of the conference		

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