

DAY 1 – Wednesday, May 11 th			
17:00 – 20:00	Registration of the participants		
19:00 – 21:00	A welcome cocktail for participants and guests		

DAY 2 - Thursday, May 12 th						
08:00 -10:00	Registration of the participants					
Conference hall	Hall A	Hall B	Hall C			
10:00 - 10:45	Opening ceremony					
10:45 - 11:45	Keynote lectures					
11:45 - 12:30	Coffee break					
12:30 - 14:00	A1: Road infrastructure design and safety	B1: Geotechnical modelling, management and optimization	C1: Facilities and vehicles design			
14:00 - 15:00	Lunch break					
15:00 - 16:30	A2: Pavement innovations and new technology	B2: Rail infrastructure optimization and condition assessment	C2: Structures design, re(construction), monitoring and management			
20:30 - 23:00	Gala dinner					

DAY 3 - Friday, May 13 th					
Conference hall	Hall A	Hall B	Hall C		
10:00 - 11:30	A3: Sustainable mobility	B3: Pavement laboratory testing	C3: Rail infrastructure design and safety		
11:30 - 12:00	Coffee break				
12:00 - 13:30	A4: Rail infrastructure monitoring and maintenance	B4: Pavement design, management and re(construction)	C4: Road infrastructure and traffic planning and modelling		
13:30 - 14:30	Lunch break				
14:30 - 16:00	A5: Rail infrastructure and traffic planning and modelling	B5: Pavement planning, modelling and monitoring	C5: Geotechnical design and monitoring		
16:00 - 16:30	Coffee break				
16:30 - 17:00	Conference closure				

DAY 2 - Thursday,	DAY 2 - Thursday, May 12 th				
10:00 - 10:45	Hall A: Opening ceremony				
		From research to	o practice: investigations of the transportation network assets throughout the Europe <i>by Meho Saša Kovačević</i>		
10:45 - 11:45	Hall A: Keynote lectures	Innovative use o	of waste materials including recycled rubber in rail infrastructure by Buddhima Indraratna		
11:45 - 12:30 Coffee break					
Time slot	Session 1	Submission ID	Submission by Authors		
		1426	Road safety assessment in curves based on a road embedded tire to road friction sensor by Alex Coiret & Pierre-Olivier Vandanjon		
		1444	Roundabout approaching speed analyses by Mirna Klobučar, Aleksandra Deluka-Tibljaš, Sanja Šurdonja, Tiziana Campisi & Robert Maršanić		
		1348	Investigation of the clear sight areas on suburban roundabouts by Saša Ahac & Petra Kipa		
	A1: Road infrastructure design and safety Chairing: Danijela Barić & Ivica Stančerić	1368	Effect of geometric road characteristics on deceleration rate in transition from tangent to horizontal curve for two-lane rural roads by Biljana Maljković, Dražen Cvitanić & Tomislav Radić		
		1389	Rehabilitation of an accident spot with Human Factors by Sibylle Birth, Žiga Boh, Samo Krajnc & Jure Kukovič		
		1403	Relationship between ages of children riding bicycles involved in traffic accidents and violations of traffic laws and ordinances in Ishikawa Prefecture <i>by Hiroki Onishi, Makoto Fujiu & Junichi Takayama</i>		
		1418	Analysis on long-term changes of driving behavior by elderly driver <i>by Yuta Arakawa, Kota Miyauchi & Kazuyuki Takada</i>		
		1477	A basic study on automatic detection of the voids on shotcrete using deep learning by Taiki Suwa & Makoto Fujiu		
		1474	Flood risks to critical infrastructure – case study of city of Karlovac by Irina Stipanović, Sandra Škarić Palić, Mario Bačić, Meho Saša Kovačević, Kenneth Gavin & Emir Ganić		
12:20 - 14:00	B1: Geotechnical modelling, management, and	1471	Classification of a flood protection infrastructure based on its vulnerability to various loads by Mario Bačić, Meho Saša Kovačević, Danijela Jurić Kaćunić, Lovorka Librić, Marijan Car, Kenneth Gavin, Irina Stipanović & Cormac Reale		
12:30 - 14:00	:00 optimization Chairing: Meho Saša Kovačević & Mario Bačić	1483	Innovative geotextile contaminant barriers in infrastructure applications — Environmental protection without surface sealing by Thomas Hasslacher, Victor Poberezhnyi & Stefan Niewerth		
		1433	Statistical analysis of fluvial trajectories based on AIS database for the construction of a bridge by Pierre-Olivier Vandanjon, Alex Coiret & Trisan Lorino		
		1484	Methodology of flood risk assessment on the main road network in the Federation of Bosnia and Herzegovina by Suada Sulejmanovic, Žanesa Ljevo, Mirza Pozder, Ammar Šarić & Sanjin Albinović		
		1409	Dual locomotives for regional freight trains by Martin Chýle & Michal Drábek		
		1437	Project of a platform-container for intermodal transport by Wieslaw Krason & Grzegorz Slawinski		
		1440	Selected functional and utility applications of a platform-container in intermodal transport by Grzegorz Sławiński & Wiesław Krasoń		
	C1: Facilities and vehicles design Chairing: Vesna Dragčević & Irina Stipanović	1462	Road infrastructure requirements to accommodate autonomous vehicles by Ana Čudina Ivančev, Vesna Dragčević & Tamara Džambas		
		1376	Front, mid and read drive comparison of an electric bicycle using e-bike conversion kits on a circular route by Hrvoje Kristek, Antonio Peršić, Antun Premec & Mario Vražić		
		1449	Innovative solutions for shared E-taxi services in a green and efficient urban transport system by Tibor Princz-Jakovics & István Kovács		
		1480	Basic analysis of the number of self-driving cars in use and the timing of the start of evacuation assistance by Yuta Moriwaki & Makoto Fujiu		
14:00 - 15:00	Lunch break				



īme slot	Session 2	Submission ID	Submission by Authors
		1359	Performance of roller-compacted concrete pavement structure with stabilized soil base layers during spring thaw by Rafal Mickevič & Audrius Vaitkus
		1378	Measurements of asphalt layer densities concrete in place by nuclear methods - interlaboratory comparison by Marjan Tušar, Mojca Ravnikar Turk & Lidija Ržek
	A2: Pavement innovations and new technology	1380	Testing of recycled building elements for road construction use by Zsolt Bencze & László Gáspár
	Chairing: Tatjana Rukavina & Audrius Vaitkus	1383	Characterization of mechanical properties and shrinkage behavior of cold recycled material (CRM) stabilized with different active fillers by Ahmed Al-Mohammedawi & Konrad Mollenhauer
		1441	Orthographic photogrammetry method for pavement texture characterization by Ivana Ban, Aleksandra Deluka-Tībljāš & Marijana Cuculić
5:00 - 16:30		1488	Eco-sustainable solutions for the maintenance of the road pavements in the Republic of San Marino by Andrea Grilli, Alex Balzi, Arianna Ciotti, Matteo Casali & Raoul Chiaruzzi
		1377	Investigations on the influence of mechanical and thermal load on the clamping force of heating rod clamps by Markus Schladitz, Max Huter, Robert Adam & Stephan Schlegel
		1503	Determination of electrical resistance of rail fastening system according to the standard EN 13146_5-2012 by Katarina Vranešić, Ivo Haladin & Stjepan Lakušić
	B2: Rail infrastructure optimization and condition assessment	1411	FE modelling and geometric parametrisation of SKL-type elastic clips by Maja Baniček, Mario Uroš & Stjepan Lakušić
	Chairing: Stefano Ricci & Andrea Mariscotti	1381	The effectiveness of distributed acoustic sensing (DAS) for broken rail detection by Adrian Wagner, Andrew Nash, Frank Michelberger, Hirut Grossberger & Gavin Lancaster
		1415	Review of the Artificial Intelligence methods used for permanent way diagnostics by Janusz Madejski
		1416	Modernization of the tramway infrastructure with the use of vibroisolation mats by Andrey Zaytsev, Andrey Kendyuk, Mihail Papaev, Andrey Sidrakov, Dmitry Basovsky & Oleg Vostrikov
		SPONS	Innovative tools for the design of steel-concrete composite decks on a motorway in Sicily by Carlo Margheriti
		1350	Integrated Fiber Bragg Grating sensor for Bridge load measurement and traffic load estimation by Jan Včelák, Jakub Vaněk, Emil Doupal & Miroslav Juhas
		1393	Evaluation of training data quality for deep learning-based damage detection by Tomotaka Fukuoka, Mai Yoshikura & Makoto Fujiu
		1461	Seismic retrofitting of existing road bridges – current state of practice by Dominik Skokandić, Andelko Vlašić, Marija Kušter Marić, Mladen Srbić & Ana Mandić Ivanković
5:00 - 17:00	C2: Structures design, re(construction), monitoring and management Chairing: Andelko Vlašić & Ivan Duvnjak	1371	Steel box girder manufacturing of Pelješac bridge by Xuefeng Wang, Bicheng Tang, Hanzhong Lu & Jun Yuan
J. 50 17.00		1402	Assessment of bridge engineers on output display size in automatic detection of free lime using deep learning by Mai Yoshikura, Takahiro Minami, Tomotaka Fukuoka, Makoto Fujiu & Junichi Takayama
		1431	Impact of Eurocode Load Model 3 on the design of highway and expressway bridges by Andelko Vlašić, Mladen Srbić, Zlatko Šavor & Ana Mandić Ivanković
		1396	Sustainable precast concrete products with wood biomass ash – kerbs and drainage channels by Sonja Cerković & Nina Štirmer
		1507	Influence of granite aggregate on longitudinal splitting in prestressed concrete members
		-3-1	by Adrijana Savic & Robert Peterman



Time slot	s - Friday, May 13 th Slot Session 3 Submission ID Submission by Authors			
Time slot	Session 3	Submission ib		
	A3: Sustainable mobility Chairing: Maja Ahac & Marko Šoštarić	1367	Evaluation of urban transport projects with respect to sustainable mobility by Davor Krasić	
		1465	Vision 2050+ (longterm concept for Slovenian rail network) by Gregor Pretnar, Mihael Blaž, Gregor Kralj & Jernej Vozelj	
		1436	Sustainable urban mobility plans for smaller communities by Katja Miklič, Gregor Pretnar, Matija Nose & David Trošt	
		1438	Sustainable mobility in small and medium-sized cities - the example of the Frankfurt Rhine-Main metropolitan region by Maximilian Birk, Volker Blees & Anna Jäger	
		1405	How to effectively promote sustainable mobility in social housing areas – results of an evaluation study in the Frankfurt Rhine-Main region by Leon Yessad, André Bruns & Matthias Kowald	
		1372	Sharjah bus rapid transit study (BRT) by Mohsin Balwan, Anurag Thakur, Thomas Varghese & Smitha Nadeera	
		1397	Comparative cost and benefit analysis of parking systems regarding the type of parking offer by Marko Svajda, Marko Šoštarić, Marko Ševrović & Marijan Jakovljević	
		1424	Challenges of developing Transport Master Plan by Ana Rígo, Igor Majstorović & Željko Stepan	
	1:30 B3: Pavement laboratory testing Chairing: Tatjana Rukavina & Marjan Tušar	1384	Fast detection of PAH in reclaimed asphalt using FTIR-ATR spectroscopy by Jens Wetekam & Konrad Mollenhauer	
10:00 - 11:20		1349	Effects of moisture on the mechanical and viscoelastic behavior of asphalt mixture under repetitive cyclic loading by Asres Alamrew & Konrad Mollenhauer	
10:00 - 11:30		1388	Cold recycled mixtures for binder courses - laboratory evaluation of mechanical properties by Dołżycki Bohdan, Mariusz Jaczewski & Cezary Szydłowski	
		1439	The effect of crumb rubber on the asphalt mixture properties by Ovidijus Sernas, Audrius Vaitkus & Deimanté Kilaité	
		1450	Influence of specimen geometry on the complex modulus of cold recycled material mixtures by Vittoria Grilli, Sara Spadoni, Francesco Canestrari & Andrea Graziani	
		1451	Numerical response analysis of structural strength capacity of fly-ash-inverted pavement by Jacob Adedeji, Samuel Abejide & Mohamed Mostafa Hassan	
	C3: Rail infrastructure design and safety Chairing: Saša Ahac & Andreas Schoebel	1492	Mentoring of students and examples of mentoring tasks related to traffic infrastructure by Zlata Dolaček-Alduk, Denis Šimenić, Dina Stober & Waldemar Alduk	
		1390	Using Autodesk Civil 3D in railroad infrastructure design by Barbara Belinić	
		1382	Fire simulation in railway tunnels: towards the design requirements for emergency exits by Francesco Martini, Andrea Quattrini & Stefano Ricci	
		1455	Barriers and half-barriers - violation at level crossings: A case study of drivers behaviour in Croatia by Danijela Barić, Silvestar Grabušić & Dražen Kaužljar	
		1420	The impact of wildlife on railway track by Slavko Živković, Ivan Barac, Patricia Živković, Ivan Pećina & Bruno Brckan	
		1406	Noise protection for designing, construction and operation of subways by Ilya Tsukernikov, Igor Shubin & Tatiana Nevenchannaya	
11:30 - 12:00	Coffee break			



ime slot	Session 4	Submission ID	Submission by Authors
	A4: Rail infrastructure monitoring and maintenance Chairing: Maja Ahac & Janusz Madejski	1385	Simplified analysis of railway track degradation by mobile applications by Rohit Raj Goswami, Roberto Sañudo Ortega & Stefano Ricci
		1459	Study of the railway curves geometry under the effect of rail traffic over time by Zsolt Orban, Marius Gocica & Laurentiu Marculescu
		1404	Use of liDAR and autonomous mobile robots in safety and inspection applications on railways by Marjan Dimec, Mislav Kraljević, Borut Žalik, Mihael Krejan, Sašo Pečnik & David Podgorelec
		1476	In-situ sound reflection determination of RUCONBAR noise barriers on a railway line by Ivo Haladin, Mate Ivančev & Stjepan Lakušić
		1487	Vibroacoustic and noise measurements on the R201 Zaprešić - Zabok railway line by Ivo Haladin, Krešimir Burnać, Mate Ivančev & Janko Košćak
	B4: Pavement design, management and re(construction) Chairing: Laszlo Gaspar & Marjan Tušar :30	1373	Development of a design catalog for bonded concrete overlays in the regional road network by Martin Peyer, Lukas Eberhardsteiner, Kristina Bayraktarova & Ronald Blab
		1379	Steel deck pavement design and construction of Pelješac bridge by Bicheng Tang, Xuefeng Wang, Shengwei Lu, Yong Chen & Chongming Li
		1452	Development of an automatic method for the recognition of top-down cracking on asphalt pavements by Davide Chiola, Lorenzo Paolo Ingrassia, Samuel Salini & Francesco Canestrari
		1486	Pavement management system for local governments: case study in the Republic of San Marino by Andrea Grilli, Alex Balzi, Arianna Ciotti, Paolo Tura & Matteo Casali
2:00 - 13:30		1364	Data analysis applied to airport pavement design by Tiago Tamagusko & Adelino Ferreira
		1401	Integrating roughness data to assess greenhouse gas emissions within pavement management decision-making by Christina Plati, Maria Pomoni, Andreas Drainakis & Andreas Loizos
	C4: Road infrastructure and traffic planning and modelling Chairing: Aleksandra Deluka Tibljaš & Vesna Dragčević	1469	Assessment of the effects of traffic infrastructure reconstruction and introduction of a pedestrian island as a traffic calming measure using traffi microsimulations by Irena Ištoka Otković, Aleksandra Deluka-Tibljaš, Sanja Šurdonja & Tiziana Campisi
		1353	Calibration of the IDM car-following model using trajectory data by Luís Vasconcelos, Francisco Martins & Luísa Cruz-Lopes
		1489	Guidelines for BIM approach in infrastructure projects by Zlata Dolaček-Alduk, Denis Šimenić, Dražen Galić, Martina Pavlović Cerinski, Filip Andabaka, Hrvoje Šolman, Anton Ecimović, Mirko Grošić, Igor Džajić, Dina Stober & Nina Dražin Lovrec
		1490	Access roads to the Pelješac bridge by Miroslav Šimun, Ante Goran Bajić, Sandra Mihalinac & Đivo Šapro
		1505	Determination of emissions from road motor vehicles by Zoran Lulić
		1355	Turboroundabouts in urban areas – a case study from Croatia by Tamara Džambas, Vesna Dragčević & Ivan Pavlaković
		1435	Analysis of the capacity and level of service for urban intersection by Ivona Nedevska, Riste Ristov, Zlatko Zafirovski, Slobodan Ognjenovic & Vasko Gacevski



DAY 3 - Friday, May 13 th				
Time slot	Session 5	Submission ID	Submission by Authors	
	A5: Rail infrastructure and traffic planning and modelling Chairing: Danijela Barić & Ivo Haladin	1413	Implementation technology of augmented reality in railway freight transport in Slovakia by Zdenka Bulkova, Milan Dedík, Jozef Gašparík, Lumír Pečený & Vladislav Zitrický	
		1400	Challenges for organisation of container trains between China and European Union by Borna Abramović & Kristijan Šugić	
		1430	Proposal of methodology for stability evaluation of train timetables from the operational-infrastructural point of view by Milan Dedík, Zdenka Bulková, Jozef Gašparík, Lukáš Čechovič & Peter Kurenkov	
		1347	Design of railway infrastructure with OpenTrack in Austria by Andreas Schöbel, Helmut Schreiner & Stefan Baltram	
		1427	Passenger data complexity in tram stop dwell time modelling by Maja Ahac, Leonard Cvitić, Igor Majstorović, Saša Ahac & Silvio Bašić	
		1429	Modal shift modelling on the TEN-T corridor in Bosnia and Herzegovina by Nedžad Branković, Aida Kalem, Azra Ferizović & Smajo Salketić	
		1468	The response of flexible pavement roads to loading frequency by Huseyin Karadağ & Seyhan Firat	
		1473	Impact of different wood ash fractions on the load-bearing capacity of sand mixtures by Sanja Dimter, Martina Zagvozda, Tea Tonc & Matija Zvonarić	
14:30 - 16:00	B5: Pavement planning, modelling, and monitoring Chairing: Sanja Dimter & Saša Ahac	1423	Influence of data acquisition speed on pavement layer thickness determined by GPR by Šime Bezina, Ivica Stančerić, Tatjana Rukavina & Josipa Domitrović	
		1428	Flexible pavement with SMA as an anti-fatigue layer by Josipa Domitrović, Luka Krišto & Tatjana Rukavina	
		1502	Measuring pavement deflections with sensors: A review by Tatjana Rukavina, Josipa Domitrović, Šime Bezina & Ivica Stančerić	
		1493	GUARD - smart flexible protection systems against natural hazards by Vjekoslav Budimir, Helene Lanter & Sascha Schultes	
		1432	Facing options for geosynthetic reinforced retaining structures in infrastructure projects by Thomas Hasslacher, Victor Poberezhnyi & Stefan Niewerth	
	C5: Geotechnical design and monitoring	1386	Foundation engineering structure by Zvonimir Šepac	
	Chairing: Meho Saša Kovačević & Mario Bačić	1357	Structural and geotechnical review of piers on foundations with pile integrity uncertainties by Roberto Gomez, Alberto Escobar, Victor Cecilio, Marco Mendoza & Hector Guerrero	
		1394	Bi-Directional load test: To remove uncertainty in pile load test results interpretation by Akshay Sakhuja, Vignesh Rajamanickam, Visakan R & B.Dhana Sekaran	
		1407	3-dimensional bearing capacity envelopes of bridge shallow foundations on cohesionless soils and scour effects by Konstantina Papadopoulou	
16:00 - 16:30	Coffee break			
16:30 - 17:00	Hall A: Conference closure			

