

Preliminary programme

V2 2022-04-10



DAY 1 – Wednesday, May 11th

15:00 – 20:00	Registration of the Participants
19:00 – 21:00	A welcome cocktail for participants and guests

DAY 2 - Thursday, May 12th

08:00 - 09:00	Registration of the participants		
Conference hall	Hall A	Hall B	Hall C
09:00 - 09:45	Opening ceremony		
09:45 - 10:00	Coffee Break		
10:00 - 11:30	Keynote lectures		
11:30 - 12:00	Coffee break		
12:00 - 13:30	A1 Road infrastructure design and safety	B1 Geotechnical modelling, management, and optimization	C1 Facilities and vehicles design
13:30 - 14:30	Lunch break		
14:30 - 16:00	A2 Pavement innovations and new technology	B2 Rail infrastructure optimization and condition assessment	C2 Structures design, re(construction), monitoring and management
16:00 - 16:30	Coffee break		
16:30 - 18:00	Round table (discussion)		
20:30 - 23:00	Gala dinner		

DAY 3 - Friday, May 13th

Conference hall	Hall A	Hall B	Hall C
10:00 - 11:30	A3 Rail infrastructure design and safety	B3 Pavement laboratory testing	C3 Sustainable mobility
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 Geotechnical design and monitoring	B5 Pavement planning, modelling, and monitoring	C5 Rail infrastructure and traffic planning and modelling
16:00 - 16:30	Coffee break		
16:30 - 17:00	Conference closure		

DAY 2 - Thursday, May 12th

Time slot	Session 1 topics	Submission ID	Submission by Authors
12:00 - 13:30	A1 Road infrastructure design and safety	1426	Road safety assessment in curves based on a road embedded tire to road friction sensor <i>by Alex Coiret & Pierre-Olivier Vandanjon</i>
		1444	Roundabout approaching speed analyses <i>by Mirna Klobučar, Aleksandra Deluka-Tibljaš, Sanja Šurdonja, Tiziana Campisi & Robert Maršanić</i>
		1348	Investigation of the clear sight areas on suburban roundabouts <i>by Saša Ahac & Petra Kipa</i>
		1368	Effect of geometric road characteristics on deceleration rate in transition from tangent to horizontal curve for two-lane rural roads <i>by Biljana Maljković, Dražen Cvitanić & Tomislav Radić</i>
		1389	Rehabilitation of an accident spot with Human Factors <i>by Sibylle Birth, Žiga Boh, Samo Krajnc & Jure Kukovič</i>
		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>
	B1 Geotechnical modelling, management, and optimization	1433	Statistical analysis of fluvial trajectories based on AIS database for the construction of a bridge <i>by Pierre-Olivier Vandanjon, Alex Coiret & Trisan Lorino</i>
		1474	Flood risks to critical infrastructure – case study of city of Karlovac <i>by Irina Stipanović, Sandra Škarić Palić, Mario Bačić, Meho Saša Kovačević, Kenneth Gavin & Emir Ganić</i>
		1471	Classification of a flood protection infrastructure based on its vulnerability to various loads <i>by Mario Bačić, Meho Saša Kovačević, Danijela Jurić Kačunić, Lovorka Librić, Marijan Car, Kenneth Gavin, Irina Stipanović & Cormac Reale</i>
		1484	Methodology of flood risk assessment on the main road network in the Federation of Bosnia and Herzegovina <i>by Suada Sulejmanovic, Žanesa Ljevo, Mirza Pozder, Ammar Šarić & Sanjin Albinović</i>
		1483	Innovative geotextile contaminant barriers in infrastructure applications – Environmental protection without surface sealing <i>by Thomas Hasslacher, Victor Poberezhnyi & Stefan Niewerth</i>
		1477	A basic study on automatic detection of voids on mortar-sprayed slopes using deep learning <i>by Taiki Suwa & Makoto Fujiu</i>
	C1 Facilities and vehicles design	1409	Dual locomotives for regional freight trains <i>by Martin Chýle & Michal Drábek</i>
		1437	Project of the Platform-container for Intermodal Transport <i>by Wiesław Krasoń & Grzegorz Slawinski</i>
		1440	Selected functional and utility applications of the platform-container in intermodal transport <i>by Grzegorz Sławiński & Wiesław Krasoń</i>
		1462	Road infrastructure requirements to accommodate autonomous vehicles <i>by Ana Čudina Ivančev, Vesna Dragčević Krasoń Tamara Džambas</i>
		1449	Innovative solutions for shared E-taxi services in a green and efficient urban transport system <i>by Tibor Princz-Jakovics & István Kovács</i>
		1376	Front, mid and rear drive comparison of an electric bicycle using e-bike conversion kits on a circular route <i>by Hrvoje Kristek</i>
	1480	Basic analysis of the number of self-driving cars in use and the timing of the start of evacuation assistance - Assuming the evacuation of vulnerable person evacuation action in the event of flooding <i>by Yuta Moriwaki & Makoto Fujiu</i>	

DAY 2 - Thursday, May 12th

Time slot	Session 2 topics	Submission ID	Submission by Authors
14:30 - 16:00	A2 Pavement innovations and new technology	1359	Performance of roller-compacted concrete pavement structure during spring thaw <i>by Rafael Mickevič & Audrius Vaitkus</i>
		1378	Measurements of asphalt layerdensities concrete in place by nuclear methods - interlaboratory comparison <i>by Marjan Tušar, Mojca Ravnikar Turk & Lidija Ržek</i>
		1380	Testing of recycled building elements for road construction use <i>by Zsolt Bencze & László Gáspár</i>
		1383	Characterization of mechanical properties and shrinkage behavior of cold recycled material (CRM) stabilized with different active fillers <i>by Ahmed Al-Mohammedawi & Konrad Mollenhauer</i>
		1441	Orthographic photogrammetry method for pavement texture characterization <i>by Ivana Ban, Aleksandra Deluka-Tibljaš & Marijana Cuculić</i>
		1488	Eco-sustainable solutions for the maintenance of the road pavements in the Republic of San Marino <i>by Andrea Grilli, Alex Balzi, Arianna Ciotti, Matteo Casali & Raoul Chiaruzzi</i>
		B2 Rail infrastructure optimization and condition assessment	1377
	1503		Determination of electrical resistance of rail fastening system according to the standard EN 13146_5-2012 <i>by Katarina Vranešić, Ivo Haladin & Stjepan Lakušić</i>
	1411		FE modelling and geometric parametrization of SKL-type elastic clips <i>by Maja Baniček, Mario Uroš & Stjepan Lakušić</i>
	1381		The effectiveness of distributed acoustic sensing (DAS) for broken rail detection <i>by Adrian Wagner, Andrew Nash, Frank Michelberger, Hirut Grossberger & Gavin Lancaster</i>
	1415		Review of the Artificial Intelligence methods used for permanent way diagnostics <i>by Janusz Madejski</i>
	1416		Modernization of the tramway infrastructure with the use of vibroisolation mats <i>by Andrey Zaytsev & Andrey Sidrakov</i>
	C2 Structures design, re(construction), monitoring, and management	1350	Integrated Fibre Bragg Grating sensor for Bridge load measurement and traffic load estimation <i>by Jan Vcelak, Emil Doupal, Jakub Vanek & Miroslav Juhas</i>
		1393	Evaluation of training data quality for deep learning-based damage detection <i>by Tomotaka Fukuoka, Mai Yoshikura & Makoto Fujii</i>
		1461	Seismic retrofitting of existing road bridges – current state of practice <i>by Dominik Skokandić, Anđelko Vlašić, Marija Kušter Marić, Mladen Srbić & Ana Mandić Ivanković</i>
		1371	Steel box girder manufacturing of Pelješac bridge <i>by Xuefeng Wang, Bicheng Tang, Hanzhong Lu & Jun Yuan</i>
		1402	Assessment of bridge engineers on output display size in automatic detection of free lime using deep learning <i>by Mai Yoshikura, Takahiro Minami, Tomotaka Fukuoka, Makoto Fujii & Junichi Takayama</i>
		1431	Impact of Eurocode Load Model 3 on the design of highway and expressway bridges <i>by Anđelko Vlašić, Mladen Srbić, Zlatko Šavor & Ana Mandić Ivanković</i>
		1396	Sustainable precast concrete products with wood biomass ash – kerbs and drainage channels <i>by Sonja Cerковиć & Nina Štirmir</i>
		1361	Replacement of an old steel railway overpass without traffic interruption <i>by Peter Nikolov</i>
		1507	Influence of granite aggregate on longitudinal splitting in prestressed concrete members <i>by Adrijana Savic & Robert Peterman</i>

DAY 3 - Friday, May 13th

Time slot	Session 3 topics	Submission ID	Submission by Authors
10:00 - 11:30	A3 Rail infrastructure design and safety	1465	Vision 2050+ (longterm concept for Slovenian rail network) <i>by Gregor Pretnar, Mihael Blaž, Gregor Kralj & Jernej Vozelj</i>
		1390	Using Autodesk Civil 3D in railroad infrastructure design <i>by Barbara Belinić</i>
		1406	Noise protection for designing, construction and operation of subways <i>by Ilya Tsukernikov, Igor Shubin & Tatiana Nevenchannaya</i>
		1382	Fire simulation in railway tunnels: towards the design requirements for emergency exits <i>by Francesco Martini, Andrea Quattrini & Stefano Ricci</i>
		1455	Barriers- and half-barriers -violation at level crossings: A case study of drivers behaviour in Croatia <i>by Danijela Barić & Silvestar Grabušić</i>
		1420	The impact of wildlife on railway track <i>by Slavko Živković, Ivan Barac, Patricia Živković, Ivan Pečina & Bruno Brckan</i>
		1391	Detailed design of Križevci-Koprivnica corridor <i>by Barbara Belinić</i>
	B3 Pavement laboratory testing	1384	Fast detection of PAH in reclaimed asphalt using FTIR-ATR spectroscopy <i>by Jens Wetekam & Konrad Mollenhauer</i>
		1349	Effects of moisture on the mechanical and viscoelastic behavior of asphalt mixture under cyclic loading <i>by Asres Alamrew & Konrad Mollenhauer</i>
		1388	Cold recycled mixtures for binder courses - laboratory evaluation of mechanical properties <i>by Dožický Bohdan, Mariusz Jaczewski & Cezary Szydłowski</i>
		1439	The effect of crumb rubber on the asphalt mixture properties <i>by Ovidijus Sernas, Audrius Vaitkus & Deimantė Kilaitė</i>
		1450	Influence of specimen geometry on the complex modulus of cold recycled material mixtures <i>by Vittoria Grilli, Sara Spadoni, Francesco Canestrari & Andrea Graziani</i>
		1451	Numerical response analysis of structural strength capacity of fly-ash-inverted pavement <i>by Jacob Adedeji, Samuel Abejide & Mohamed Mostafa Hassan</i>
	C3 Sustainable mobility	1367	Evaluation of urban transport projects with respect to sustainable mobility <i>by Davor Krasnić</i>
		1436	Sustainable urban mobility plans for smaller communities <i>by Katja Miklič, Gregor Pretnar, Matija Nose & David Trošt</i>
		1438	Sustainable mobility in small and medium-sized cities - the example of the Frankfurt RhineMain metropolitan region <i>by Maximilian Birk, Volker Blees & Anna Jäger</i>
		1405	How to effectively promote sustainable mobility in social housing areas – results of an evaluation study in the Frankfurt Rhine-Main region <i>by Leon Yessad, André Bruns & Matthias Kowald</i>
		1372	Sharjah bus rapid transit study (BRT) <i>by Mohsin Balwan, Anurag Thakur, Thomas Varghese & Smitha Nadeera</i>
		1397	Comparative cost and benefit analysis of parking systems regarding the type of parking offer <i>by Marko Svajda, Marko Šoštarić, Marko Ševrović & Marijan Jakovljević</i>

DAY 3 - Friday, May 13th

Time slot	Session 4 topics	Submission ID	Submission by Authors
12:00 - 13:30	A4 Rail infrastructure monitoring and maintenance	1385	Simplified analysis of railway track degradation by mobile applications <i>by Rohit Raj Goswami, Roberto Sañudo Ortega & Stefano Ricci</i>
		1459	Study of the railway curves geometry under the effect of rail traffic over time <i>by Zsolt Orban, Marius Gocica & Laurentiu Marculescu</i>
		1404	Use of LiDAR and autonomous mobile robots in safety and inspection applications on railways <i>by Marjan Dimec, Mislav Kraljević, Borut Žalik, Mihael Krejan, Sašo Pečnik & David Podgorelec</i>
		1476	In-situ acoustic properties determination of RUCONBAR noise barriers on a railway line <i>by Ivo Haladin & Mate Ivančev</i>
		1487	Vibroacoustic and noise measurements on the R201 Zaprešić - Zabok railway line <i>by Ivo Haladin, Krešimir Burnač, Mate Ivančev & Janko Koščak</i>
	B4 Pavement design, management and re(construction)	1373	Development of a design catalog for bonded concrete overlays in the regional road network <i>by Martin Peyer, Lukas Eberhardsteiner, Kristina Bayraktarova & Ronald Blab</i>
		1379	Steel deck pavement design and construction of Pelješac bridge <i>by Bicheng Tang, Xuefeng Wang, Yong Chen & Chongming Li</i>
		1452	Development of an automatic method for the recognition of top-down cracking on asphalt pavements <i>by Davide Chiola, Lorenzo Paolo Ingrassia, Samuel Salini & Francesco Canestrari</i>
		1486	Pavement management system for local governments: case study in the Republic of San Marino <i>by Andrea Grilli, Alex Balzi, Arianna Ciotti, Paolo Tura & Matteo Casali</i>
		1364	Data analysis applied to airport pavement design <i>by Adelino Ferreira</i>
		1401	Integrating roughness data to assess greenhouse gas emissions within pavement management decision-making <i>by Christina Plati, Maria Pomoni, Andreas Drainakis & Andreas Loizos</i>
	C4 Road infrastructure and traffic planning and modelling	1469	Assessment of the effects of traffic infrastructure reconstruction and introduction of a pedestrian island as a traffic calming measure using traffic microsimulations <i>by Irena Ištoka Otković, Aleksandra Deluka-Tibljaš, Sanja Šurdonja & Tiziana Campisi</i>
		1435	Methodology for analyzing capacity and level of service for urban intersection <i>by Zlatko Zafirovski, Ivona Nedevska Trajkova, Riste Ristov, Slobodan Ognjenovic & Vasko Gacevski</i>
		1353	Calibration of the IDM car-following model using trajectory data <i>by Luís Vasconcelos, Francisco Martins & Luísa Cruz-Lopes</i>
		1424	Challenges of developing traffic masterplans <i>by Ana Rigo, Igor Majstorović & Željko Stepan</i>
		1489	Guidelines for BIM approach in infrastructure projects <i>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</i>
		1355	Turboroundabouts in urban areas – a case study from Croatia <i>by Tamara Džambas, Vesna Dragčević & Ivan Pavlaković</i>
		1490	Access roads to the Pelješac bridge <i>by Miroslav Šimun, Ante Goran Bajić, Sandra Mihaljinac & Đivo Šapro</i>

DAY 3 - Friday, May 13th

Time slot	Session 5 topics	Submission ID	Submission by Authors
14:30 - 16:00	A5 Geotechnical design and monitoring	1493	GUARD - smart flexible protection systems against natural hazards <i>by Vjekoslav Budimir, Helene Lanter & Sascha Schultes</i>
		1432	Facing options for geosynthetic reinforced retaining structures in infrastructure projects <i>by Thomas Hasslacher, Victor Poberezhnyi & Stefan Niewerth</i>
		1386	Foundation engineering structure <i>by Zvonimir Šepac</i>
		1407	3-dimensional bearing capacity envelopes of bridge shallow foundations on cohesionless soils and scour effects <i>by Konstantina Papadopoulou</i>
		1394	Bi-Directional load test: To remove uncertainty in pile load test results interpretation <i>by Akshay Sakhuja, Vignesh R, Visakan R & B.Dhana Sekaran</i>
		1357	Structural and geotechnical review of piers on foundations with pile integrity uncertainties <i>by Roberto Gomez, Alberto Escobar, Victor Cecilio, Marco Mendoza & Hector Guerrero</i>
		1468	The response of flexible pavement roads to loading frequency <i>by Huseyin Karadağ & Seyhan Firat</i>
	B5 Pavement planning, modelling, and monitoring	1428	Flexible pavement with SMA as anti-fatigue layer <i>by Josipa Domitrovic, Luka Krišto & Tatjana Rukavina</i>
		1494	Required properties of mastic asphalt for use in road construction <i>by Kerim Hrapović</i>
		1473	Impact of different wood ash fractions on the load-bearing capacity of sand mixtures <i>by Sanja Dimter, Martina Zagvozda, Tea Tonc & Matija Zvonarić</i>
		1423	Influence of data acquisition speed on pavement layer thickness determined by GPR <i>by Šime Bezina, Ivica Stančerić, Tatjana Rukavina & Josipa Domitrović</i>
		1502	Measuring pavement deflections with sensors: A review <i>by Tatjana Rukavina, Josipa Domitrović, Šime Bezina & Ivica Stančerić</i>
	C5 Rail infrastructure and traffic planning and modelling	1413	Implementation technology of augmented reality in railway freight transport in Slovakia <i>by Zdenka Bulkova, Milan Dedík, Jozef Gašparík, Lumír Pečený & Vladislav Žitrický</i>
		1400	Challenges for organisation of container trains between China and European Union <i>by Borna Abramović & Kristijan Šugić</i>
		1430	Proposal of methodology for stability evaluation of clock schedules in railway passenger transport from the operational-infrastructure point of view <i>by Milan Dedík, Zdenka Bulková, Jozef Gašparík, Lukáš Čechovič & Peter Kurenkov</i>
		1429	Modal shift modelling on the TEN-T corridor in Bosnia and Herzegovina <i>by Nedžad Branković, Aida Kalem, Azra Ferizović & Smajo Salketić</i>
		1347	Design of railway infrastructure with OpenTrack in Austria <i>by Andreas Schöbel, Helmut Schreiner & Stefan Baltram</i>
		1427	Passenger data complexity in tram stop dwell time modelling <i>by Maja Ahac, Leonard Cvitić, Igor Majstorović, Saša Ahac & Silvio Bašić</i>