

ENGINEERING CONFERENCE,
Bečići, Montenegro, 28 – 30.8.2023.

International Conference
„ENGINEERING CONFERENCE”

Dear participants of the Conference,

Registration of participants will take place on Monday 28.08.2023. from 8:00 to 10:00.

We kindly ask all authors to prepare their presentation for 15 minutes.

In case of non-arrival of a certain number of authors, the organizer has the right to change the schedule, about which the participants will be informed in time.

Dear authors, please submit your presentations to the technical person before the scheduled session.

Organizational Committee of the Conference

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Conference Schedule

28.08.2023.

08:00-10:00	Registration	
I Session- 14:00-16:00		
Chair: dr Mirjana Laban dr Suzana Draganić		
Time		
14:00-15:00	<p>dr Branko Savić, Director The Higher Education Technical School, Serbia, President Scientific committee</p> <p>dr Mirjana Laban, Professor, Faculty of Technical Sciences, University of Novi Sad Serbia, Vice president</p> <p>Mr Ljuban Tmušić, Ministry of Interior, Rescue and Protecton Directorate, Head of Department for Civil Protection and Disaster Risk Reduction</p> <p>McS Sandra Nedeljković, Assisstant Minister, Ministry of Public Investment, Belgrade, Serbia</p> <p>dr Dumitru Mnerie, Professor, Politehnica University Timisoara, Romania</p> <p>dr Filip Kokalj, Professor, Faculty of Mechanical Engineering, University of Maribor, Slovenia</p> <p>dr Meri Cvetkovska, Professor, Ss. Cyril and Methodius University in Skopje, Faculty of Civil Engineering, North Macedonia</p>	<p>Welcome note Opening of the Conference</p>
Lectures by invitation		
15:00-15:30	Ljuban Tmušić,	Inter-subject DRR program in

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	Kristina Palajsa	Montenegro
15:30-16:00	Sandra Nedeljković	Recovery after disaster towards resilience and sustainable society development
Questions and discussion		

II Session- 19:00-21:00		
Chair: dr Saša Spaić dr Ranko Antunović		
Time	Author	Paper
19:00-19:15	Larisa-Georgiana Matei , Ramona Dzitac Adriana-Carmen Cazan Alexandru Suciu, Adrian Corui, Dumitru Mnerie	On some possibilities of valorization of the sludge resulting from the treatment of municipal wastewater
19:15-19:30	Adriana Carmen Cazan, Alexandru Suciu, Ramona Dzitac, Larisa Matei, Dumitru Mnerie	On some aspects of the implementation of photovoltaic panels in integrated agro-industrial systems in the rural environment
19:30-19:45	Zvezdan Karadžin, Jasmin Isabegović, Edisa Nukić, Jelena Marković	Assessment on the contamination of soil and groundwater with mercury at the chemical industrial complex, HAK 1, Tuzla
19:45-20:00	Nemanja Jovanović, Živoslav Adamović	Vibration testing using bode diagrams to determine condition and protection against pump failures
20:00-20:15	Suzana Draganić, Mirjana Laban, Olivera Bukvić	Enhancing fire safety of evacuation routes: the checklist method for rapid control
20:15-20:30	Beno Arbiter, Niko Samec, Filip Kokalj	Syngas formation and composition during solid waste gasification
20:30-20:45	Meri Cvetkovska, Luis Braganca	Circular economy in build environment
20:45-21:00	Perseta Grabova, Gentiana Sharku	Empirical study of demand side sectors affecting disaster related insurance products development in Albania
Questions and discussion		

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III Session - 08:00-10:00		
Chair: dr Vesna Petrović dr Zvezdan Karadžin		
Time	Author	Paper
08:00-08:15	Ranko Antunović, Branko Savić, Nikola Vučetić	Condition monitoring and protection of technical systems
08:15-08:30	Elona Pojani	Climate change and human capital impact – the case of Albania
08:30-08:45	Ljiljana Popović, Tanja Vranić, Cveta Lazić, Srđan Popov, Đorđe Ćosić	Vulnerability assessment and spatio-temporal visualization
08:45-09:00	Biljana Lovčević-Kureljušić, Anka Starčev-Čurčin, Igor Peško, Igor Džolev	Fire protection measures at photovoltaic solar power plants
09:00-09:15	Tatjana Kočetov Mišulić, Aleksandra Radujković	Assessment of existing timber structures in context of safety engineering
09:15-09:30	Ramona Dzitac, Larisa-Georgiana Matei, Adriana-Carmen Cazan, Alexandru Suciu, Titus Slavici	Study on some influences of workers' emotional responses
09:30-09:45	Alexandru Suciu, Adriana Carmen Cazan, Ramona Dzitac, Larisa Matei, Gabriela-Victoria Mnerie	Scalable flashing station solution for the automotive industry
09:45-10:00	Miroslava Vandličková, Eva Sventeková, Iveta Marková, Stanislava Gašpercová	Experimental measurement of explosion parameters of combustible industrial dusts
Questions and discussion		

IV Session- 13:00-15:00		
Chair: dr Meri Cvetkovska dr Dušan Gavanski		
Time	Author	Paper
13:00-13:15	Dragan Rastovac, Božo Ilić	Creating of the fourth and the fifth generation of mobile networks
13:15-13:30	Snežana Ilić, Mirjana Laban, Igor Džolev	Reaction to fire – SBI test
13:30-13:45	Zdravko Maksimović, Mirjana Laban, Sandra	Agriculture & disaster risk reduction (DRR)

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	Nedeljković	in Republic of Serbia
13:45-14:00	Branko Babić, Varadi Boris	Rescuing survivors from the ruins
14:00-14:15	Cveta Lazić, Mirjana Laban, Suzana Draganić	The affect of the study area on the youth safety culture in the Republic of Serbia
14:15-14:30	Tatjana Božović, Vesna Petrović	Investigation flame retardant properties of water glass for inside wood
14:30-14:45	Senka Bajić, Borko Bulajić, Dragoljub Veljović	Importance of the physical fitness of emergency professionals
14:45-15:00	Vesna Petrovic, Saša Skoko, Aleksandar Čabrilo	Microstructural characteristics of molten marks on copper wire for fire investigation
Questions and discussion		

V Session - 19:00-21:00		
Chair: dr Dumitru Mnerie dr Branislav Santrač		
Time	Author	Paper
19:00-19:15	Dušan Gavanski	Analysis of application of the protection system on band saws
19:15-19:30	Dragana Đurić, Jelena Maslovara Jovanović, Bogoljub Milić	Development of the entrepreneurial potential of students the Academy of tehcnical studies Belgrade
19:30-19:45	Anita Petrovic, Tatjana Božović, Aleksandra Botić	Experience in using orange peel as heavy metals adsorbent
19:45-20:00	Ninoslava Tihi, Srđan Popov	Application of holt-winters exponential smoothing method in urban drought prediction
20:00-20:15	Božo Ilić, Branko Savić, Dragan Rastovac	Creation of a smart classroom
20:15-20:30	Branislav Santrač	Cymatics as a possible explanation of fire extinguishing with sounds
20:30-20:45	Karolina Mudrinski, Sibila Petenji, Srđan Dimitrov, Jovana Janjić	Groups of pictograms as fire protection measures
20:45-21:00	Sibila Petenji, Karolina Mudrinski, Srđan Dimitrov, Tamara Šurbat	Creation of digital illustrations in the form of digital stickers and application within Viber application
Questions and discussion		

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VI Session - 08:00-10:00	
Poster session	
Author	Paper
Marko Blažić, Dragan Ivetić, Srđan Popov, Ivana Berković, Višnja Ognjenović	An overview of kpi and metrics in cloud services
Nenad Janjić, Ljiljana Čumura, Branko Savić	Spremnost studenata VTŠSS u Novom Sadu za reagovanje u vanrednim situacijama
Branko Savić, Božo Ilić, Nenad Janjić, Ranko Antunović	Razvoj sopstvenog prilaza vrednovanju kvaliteta i pouzdanosti složenih mehaničkih sistema na primeru trostepenih reduktora
Borisav Tošić, Petra Tanović	Removal of oily water from oil pits of transformer stations 110/x kV by installation of separators
Aleksandar Vošić, Saša Spaić	Solving the problem of inadequate water pressure in the hydrant installations of the companies in Novi Sad
Ivana Đurkić, Petra Tanović	Informing the population about environmental protection through the media
Siniša Tucakov, Anita Petrović-Gegić	Analysis of the knowledge of the procedure of safety work with pesticides among farmers in the Juznbacka district
Saša Spaić, Tatjana Božović, Dragana Todorović	Fire-rescue interventions in the South Backa administrative district for the period 2000-2022
Aleksandra Poznanović	Analiza upoređivanja starog i novog Zakona o bezbednosti i zdravlju na radu
Branislav Adžić, Saša Spaić	Prevenција požara i eksplozija u mlinskoj industriji i silosima za skladištenje žitarica snižavanjem koncentracije ukupnih praškastih materija
Mladen Trkulja, Saša Spaić	Požari u vezi sa železničkim saobraćajem
Mladen Jović	Bezbedan rad pri pretakanju sumporne kiseline
Marina Bradaric	Uzroci povreda na radu pri održavanju elektroenergetskih objekata u ED „RUMA“
Filip Ferger	Projektovanje kontrole pristupa opasnim zonama
Tamara Bosnić	Smanjenje mehaničkih opasnosti u razvoju poljoprivredne mehanizacije
Nikolina Mijatov	Analiza procene rizika radnih mesta sa povećanim rizikom
Jovana Stevanić	Uticaj otpada u proizvodnji plastičnih kesa na životnu sredinu
Dragan Zečević	Primena kontejnerizovanja tehnologija u izradi web aplikacija
Stefan Jelačić	Analiza buke kao fizičke štetnosti u različitim

VII Session - 13:00-15:00		
Chair: dr Dragan Rastovac		
Time	Author	Paper
13:00-13:15	Goran Savić	Models of practical application of the reinforcement learning algorithms
13:15-13:30	Miroljub Ivanović, Milivoje Cosic	Lifelong learning, digital literacy, and web 2.0 tools – determinants of social entrepreneurship in adolescents
13:30-13:45	Antonio V. D. Merladet, Carlos H. N. Lahoz, Chiara Manfletti, Rodrigo M. Silveira	System-theoretic process analysis applied for verification processes during launch operations
13:45-14:00	Slobodan Drašković, Dalibor Vukić, Mile Navala, Vera Petrović, Goran Dikić	Comparison of pm production in diesel engine exhaust gases: with and without diesel particulate filter
14:00-14:15	Miodrag Kovačević, Matilda Lazić	Identification of the changes and additions to the conditions of adr transport of butylene
14:15-14:30	Matilda Lazić, Miodrag Kovačević	Identification of physical hazards from styrene and fire-fighting measures
14:30-14:45	Sanjin Troha, Željko Vrcan, Kristina Marković, Milan Tica, Miroslav Milutinović	Shifting capabilities of two-speed, two-carrier planetary gear trains
14:45-15:00	Nenad Kojić, Natalija Vugdelija, Valentina Malešević, Radica Kojić, Milanko Kragović	Classifying and detecting phishing attacks on websites using the k-nn algorithm
Questions and discussion		

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VIII Session - 19:00-21:00		
Chair: dr Branko Babić		
Time	Author	Paper
19:00-19:15	Željko Vrcan, Sanjin Troha, Kristina Marković, Milan Tica, Miroslav Milutinović	A comparison of different planetary gear trains and their combinations
19:15-19:30	Teodora Mihajlovska, Ana Trombeva-Gavriloska, Bojan Karanakov, Liljana Dimevska Sofronievska	Parametric form finding of shells subjected to seismic force loading
19:30-19:45	Ileana Mogoşanu, Dumitru Mnerie, Gabriela-Victoria Mnerie	Study on some risk factors for teleworkers
19:45-20:00	Dobrin Emilia, Mnerie Gabriela-Victoria	Thermoelectric generator - a source of complementary electrical energy
20:00-20:15	Nemanja Jovanović, Živoslav Adamović	Development of business intelligence model for risk analysis in securities market
Questions and discussion		
Conference organizing committee meeting		