Saturday - June 29, 2024

18:30 Welcome reception

Sunday - June 30, 2024

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8:20	8:30		Opening ceremony		
8:30	9:20	Amin Hammad: Digital Twins in Construction and Infrastructure Managemen			
9:20	9:30		Disperse to sessions		
		Session room I.	Session room II.	Plenary room	
9:30	10:45	Sustainable Construction, Health & Safety: Farzad Rahimian	Creative Management: Miklós Hajdu	Automation and Robotics in Construction: Miroslaw Skibniewski	
		John Smallwood: Health and Safety (H&S) Specifications: H&S Practitioners' Experiences	Zoltán Sebestyén, Erdei János: Subjective vs. Objective Success in Projects: Exploring Stakeholder Perspectives	Mario Wolf, Oliver Vogt, Detlef Gerhard: Asset Administration Shell Integration for IoT Sensors: An Automated Process for Precast Concrete Elements	
		Wenyu Zhang, Shu-Chien Hsu: Green Innovation and Carbon Reduction Efficiency: Empirical Evidence from China	Sabrina Puslat, Florian Groß, Bert Leerkamp: Challenges and opportunities of digitalization in construction logistics	Bikash Lamsal, Masato Oka, Bimal Kumar KC, Matteo Sardellitti, Naofumi Matsumoto: Smartphone based Indoor localization and navigation system for non-GPS environment	
		Christian Koch: Post Sustainability construction - concepts for regenerative building	István Hajnal: Can housing construction be accelerated by legislation? A case study of former socialist Hungary	Jeongwoon Choi, Jungyeon Kim, Seokho Chi: Automated Construction Specifications Digitalization for Efficient Compliance Checking on Sites	
		Zuzanna Woźniak, Tomasz Nowobilski, Bożena Hola: Characteristic of hazardous events in a Polish construction company using time seriea	Liuying Zhu, Xinyan Han, Liang Ma: Exploring Key Factors Influencing Resilience in Large- Scale Infrastructure Projects	for human_cobots scheduling	
		Zixuan Kang, Shu-Chien Hsu, Zhongnan Ye: Joint optimization of energy storage and power modulation for electric vehicle charging coordination	Muammer Semih Sonkor, Paul Wright, Engie Mohsen, Jodie Reindorf, Borja García de Soto: Survey Findings on Cybercrime and Cybersecurity Practices in the MENA	Scott Sheenan, Faris Elghaish, Tara Brooks : A Digital Twin Framework for Predictive Maintenace Systems Promoting Net Zero Principle s	
10.45	11.15	power modulation for electric vehicle charging coordination	Coffee Break	wantenace systems Promoting Net Zero Principie's	
10:45 11:15 11:15 12:30		Corres treast Sustainable Construction, Health & Safety: Borja Garcia de Soto Creative Management: Istvia Hajnal Automation and Robotics in Construction: Miroslaw Skibniewski			
11.10	12.50	Scott Kelting, Gavin Beadle, Maryam Kouhi: Perceptions of Major Barriers on the LEED	Liuying Zhu, YunYing Yuan, Liang Ma: Seize the Initiative Proactively: Unraveling	Song Yinhao, Zhiliang Ma, Liu Gang, Zeng Bo, Tan Xiao: A Comprehensive Review of the	
		Score card Preventing Projects from Reaching the Platinum Level	Resilience Mechanism for Mega Projects	Application of Digital Twin Technology in Construction Engineering	
		Mario Wolf, Jochen Teizer, Joshua Fazel, Benjamin Weber: Creation of large language	Carl Philipp Friedinger, Simon Christian Becker, Philip Sander: Probabilistic Cost	Jiajing Liu: Self-adaptive Parameters Optimization of a Physics-data Hybrid Driven Model	
		model-based agent for construction safety dialogs in virtual reality	Estimation for Major Construction Projects in Infrastructure	for Surface Settlement Prediction	
		Dalel Daleyev, Stauss Philipp, Iva Kovacic: A Shear Wall Layout Optimization Strategy Aimed at Prioritizing ReUse and PreFabrication of Reinforced Concrete Walls	Aynur Hurriyet Türkyılmaz, Gul Polat, Aysegul Gurkan: Why Construction 4.0 Technologies are not Widely Used in the Construction Industry	Ali Ghelmani, Amin Hammad: DIGERv2: Single-stage simultaneous construction worker and equipment activity recognition through multi-scale path aggregation	
		Federica Madaschi, Chiara Brattoli, Frederica Madaschi, Marco Lorenzo Trani : The OpenBIM standard IFC for the Building Safety File	Mariela Sjekavica, Mladen Radujković: Beyond the blueprint: Investigating the relationship between project managers' personality types and soft skills in construction Projects	Jonathan Matthei, Peter Bohnenkamp, Katharina Klemt-Albert: An Approach for Al-based Objection Management in the Context of Public Participation	
		Gökcen Arslan, Aynur Kazaz: Prioritization of Barriers to Sustainability Practices in the Turkish Construction Sector	Felipe Herrera, Ximena Ferrada, Claudia Valderrama-Ulloa: Constructing Change: Empowering Women in Chile's Construction Industry	Sophie Kalisch, Jan-Iwo Jäkel, Katharina Klemt-Albert: Concept Development for a Rating System reflecting a Validity Index for Structural Data in Existing Bridge Structures in	
12:30	13:30		Lunch		
13:30	14:20	Žiga Turk: Limitations of large language models in creative engineering design			
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14:20	14:30		Disperse to sessions	-	
14:20 14:30		Sustainable Construction, Health & Safety: Miklos Hajdu	Disperse to sessions Creative Management: Zoltán Sebestyén	- Automation and Robotics in Construction: Zhiliang Ma	
	14:30	Soliu Idris, Giovanni C. Migliaccio, Idris Abdulgafar: Toward a Circular Built Environment:	Creative Management: Zoltán Sebestyén Simon Christian Becker, Carl Philipp Friedinger, Philip Sander: Criteria and List of	Reza Akhavian, Kunal Nandanwar : Optimizing Construction Site Surveys: BIM-Based	
	14:30		Creative Management: Zoltán Sebestyén		
	14:30	Soliu Idris, Giovanni C. Migiliaccio, Idris Abdulgafar: Toward a Circular Bulk Environment: Exploring the Research Trends and Knowledge Gap Alon Urlainis, Igal M. Shohet: Integrating Maintenance into Seismic Risk Assessment: A Comprehensive Approach to Infrastructure Resilience Yuncheul Woo, Park Moonseo, Changbum Ryan Ahn: Exploring the impact of display and interaction fidelity in fire virtual environments	Creative Management: Zoltán Sebestyén Simon Christian Becker, Carl Philipp Friedinger, Philip Sander: Criterio and List of Questions for Selecting the Project Delivery Model Aynur Hurriyet Turkylimaz, Ayse Feride Armangil Gokalp, Cui Polat: A Bibliometric Review of Disputes in The Construction Projects Dilan Durmus, Jože Rožanec, Alessandro Carbonari, Alberto Giretti, Žiga Turk, Marko Grobelnik: Potential of Lange Language Models for Ontology Development in Construction Domain	Reza Akhavian, Kunal Nandanwa : Optimizing Construction Site Surveys: BIM-Based Position Planning for Robotic Indoor Scanning Sungboo Yoon, Chaeeun LEF, SangHyun LEF, Moonseo PARK, Changbum R. Ahn: A Taxonomy of Extended Reality for Human-Robot Interaction in Construction Based on a Systematic Literature Review Nikola Spicek, Miroslaw J. Skibniewski, Svetlana Besklubova: Impoct of 3D printing on meeting Construction 5.0	
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14:30	14:30 15:45 16:30	Solia Jdřís, Giovann C. Migliaccio, Idris Abdulgafar: Toward a Circular Built Environment: Exploring the Research Trends and Knowledge Gop Alon Urlainis, Igal M. Shohet: Integrating Maintenance into Seismic Risk Assessment: A Comprehensive Approach to Infrastructure Resilience Yuncheul Woo, Park Moonseo, Changbum Nyan Ahn: Exploring the impact of display and interaction Jidelity in Jire virtual environments Abroon Qazi, Charf Mahammedi, Jian O'Connor, Ali A. Karakhan, Fartad Rahimian, Al Hassan: Enhoncing Risk Response Strategy Selection in Oil and Gas Construction Igal M. Shohet, Arnos Hassan: Theory of Faults (ToF) in residential construction Justanable Construction, Health & Safety: Miklos Hajdu Malik Khafan, Fajesh Mahadewa: Promoting the Systematic Analysis of Sustainable Built Environment Tractices Felipe Herrera, Claudia Valderrama, Ximena Ferrada: Chronic and Metabolic Diseases in Construction Workers: A Systematic Review and Its Productivity Implication Zhongan Ye, Xiaoyi Liu , Lebing Ying, Shu-Chien Hsu: Pionersen Toron-Neutral Zhongan Ye, Xiaoyi Liu , Lebing Ying, Shu-Chien Hsu: Pionering Grabon-Neutral Pathways InHyStrength Steel Construction	Creative Management: Zoltán Sebestyén Simon Christian Becker, Carl Philips Priedinger, Philip Sander: Citteria and List of Questions for Selecting the Project Delivery Model Aynur Hurriyet Turkyilmaz, Ayse Feride Armangil Gokalp, Gul Polat: A Bibliometric Review of Diputes in The Construction Projects Dilan Durmus, Iole Rolanec, Alessandro Carbonari, Alberto Giretti, Ziga Turk, Marko Grobelnik: Potential of Large Language Models for Ontology Development in Construction Domain Negar Mansouri Asl, Amira Eltahan, Ahmed Hammad, Ahmed, Farook Hamzeh: The need for a novel perspective on productivity monagement Gökcen Arslan, Anyur Kaza: An Assessment of Risk Impact on Time and Cost Performance of Construction Projects Coffee Break Creative Management: Anops Sattineni Mariela Sjekavica, Domaggi Andelschow, Inops Sattineni Mariela Sjekavica, Domaggi Anderkevi, Hrviog Mettrović: Strategi Forecasting: Unleashing the Power of A for Smart Predictions in Public Procurement of Infrastructure Projects Rita Elias Awwad, Zeina Thabet: Impact of Construction Monagement on Selected Claims' Reduction Sites King Leikavica, Birake King, Jaehyun Hwang, Seokho Chi: Real-time Ground Vibration Estimation on Construction Sites Anna Stefańska, Agnieszka Chudzińska, Saurav Divit. Microclimate-supporting solutions	Reza Akhavian, Kumal Nandanwar : Optimizing Construction Site Surveys: Bith-Based Position Planning for Robotic Indoor Scanning Sungboo Yoan, Chaewani EE, SangHyun LEE, Monstee PARK, Changbum R, Ahn: A Taxonomy of Extended Reality for Human-Robot Interaction in Construction Based on a Systematic Literature Review Nikola Spicek, Miroslaw J. Skibniewski, Svetlana Besklubova: Impact of 3D printing on meeting Construction 5.0 Anoop Sattineni, John Greenheck, Ben Farrow: Modular construction for affordable housing in western United States: A qualitative study Lukasz Sadowski: Self-sensing mechanism of cement mixes containing spent equilibrium cotalyst and graphene-based material Shervin Rhama, Waltic El Stababgh, Fabian Cehnchen, Kahanian Klemt-Albert Exploration of VF-based training with a parototype for the installation of building- integrated photovaltic and thermal systems Gerrit Placek, Patrick Schwerdtner: Comparison of technical- and performance-specific properties of 3D concrete printers Xinyu Zhan, Zhaoyi Liu, Shu-Chien Hsu: A simulation framework for estimating status of trapped occupants in residential building fires Yusuke Nishizawa, Michiru Mishima: Acquisition of tower crane operational performance	

Monday - July 1, 2024

9:50 10:00 Disperse to sess 10:00 11:15 Sustainable Construction, Health & Safety: Miklos Hajdu Disperse to sess 20:00 11:15 Sustainable Construction, Health & Safety: Miklos Hajdu Disperse to sess Description of the session of the set of the se	Creative Management: Saurav Dixit Lauren Redden, Richard Burt, Liam O'Danie: Diversity ond Inclusion in U.S. Construction Industry: An Analysis of Vesiste Bronding
Ender Yetim, Aynur Kazaz: The Effect of Opaque-Transparent Surface Ratio on Building Energy Performance Gill Sherzer Lifshitz, Alona Urlani, Shahi Moyal, Igal M. Shahet: Assessing Seismic Risks and Cost-Effective Strategies for Continuous Operation of Critical Infrastructure	Lauren Redden, Richard Burt, Liam O'Daniel: Diversity and Inclusion in U.S. Construction
Energy Performance Gili Sherzer Lifshitz, Alon Urlainis, Shani Moyal, Igal M. Shohet: Assessing Seismic Risks and Cost-Effective Strategies for Continuous Operation of Critical Infrastructure	
and Cost-Effective Strategies for Continuous Operation of Critical Infrastructure	
Paam Zaibak Shini, Hofit Maharahani, Kun Chi Wang, Jagl M. Shahat: Poot factors and	Zhiyuan Guo, Hanbin Luo, Weiya Chen, Yue Kong: Ontology-based survey knowledge miűodeling to support the renovation of historical buildings
Reem Leibox shim, Hojit Wanarabani, kun-uni Wang, igai W. shohet: Noot joctors and effective mitigation methods for construction safety: an analytical empirical model	Fengyi Guo, Fu Shuang, Sun Jun: Multi-modal Knowledge Graph-Based Question Answering System for High-Rise Building Construction Technologies
Fadi Shahin, Nadav Fisher, Kun-Chi Wang, Igal M. Shohet: Sofety Climote in Lorge Construction Enterprises	Jing Yang: Smart Trading Method Using BIM and Blockchain Technology for Procurement of Prefabricated Components
Gal Shany, David Ornal, Igal M. Shohet and Robert Lewy: Risk Analysis and Assessment Methodology of Underground Critical Infrastructures Exposed to Munitions Hits	Efraim Ljung, Mikael Viklund Tallgren : The Significance of Work Preparation Planning for A Predictable Execution
11:15 11:45 Coffee Break	
11:45 13:00 Sustainable Construction, Health & Safety: Miklos Hajdu	Creative Management: Žiga Turk
Saurav Diait, Anna Stefanska, Dhruv Chaudhry, Subhav Singh, Bhlvraj Suthar, Priyanka Singh: A Review of Decarbonization Strategies in the Construction Sector: Building a Sustainable Future	Mark Tatum, Junshan Liu: Applications of Ummanned Aerial Vehicles in Construction With a Case Study on Levee Inspection
Zihan Liu, Wenli Liu, Yongping Di : Application of DNN and HEC-RAS model for pollutant dispersion patterns in rivers	Mahmoud Elshamy, Faris Elghaish, Tara Brooks: Analyzing pre-construction risk factores in Gulf region: An industrial qualitative perspective
Farzad Rahimian, Nazanin Moazzen, Touraj Ashrafian: Evaulating the life cycle environmental impact of cememnt based materials in residential construction	Saurav Dixit, Vishal Francis, Anna Stefanska, Subhav Singh: Circulor Economy and Sustainability Aspects of 3D Printed Parts: Challenges, Opportunities and Barriers
John Smallwood, Peter Dobson : The Performance of Key Stakeholders relative to Construction Health and Safety in South Africa	Jan-Iwo Jaekel, Eva Heinlein, Kathrina Klemt-Albert: Formalisation of knowledge on non- destructive inspection methods for bridge structures through the development of the SODIA ontoloav
Lauren Redden, Brian Brandt: Mentol Heolth and Stress Management of Construction Professionals Lauren Redden, Brian Brandt	Agnieszka Chudzińska, Przemysław Kielb, Anna Stefańska, Saurav Dixit and Radosław Achramowicz: Pandemic covid-19 as a lessof for war field hospitals: an analysis of three architectural cases
13:00 14:15 Lunch 14:15 14:20 Disperse to sess	
14:15 14:20 Disperse to Sess 14:20 15:35 Creative Construction Technology and Materials: Zoltán Sebestyén	ONS Vizualization, Virtual reality, BIM and 3D printing: Zhiliang Ma
Yifan Lu, Weili Fang, Hanbin Luo: Knowledge-Driven Adversarial Attacks on Deep- Neurol-Network-Based Tunneling-Induced Ground Settlement Prediction Models and Its Defense	Charf Mahammedi, M.K.S.Al-Midawi, Jaine and Japaning Lamining and Chard Strand Star Hahimian: Towards The Creation of BIM-based Decision Support System to Assist Designers to Design-Out Brownfield Ste Harards
Ruben Vrijhoef: Control tower approach to improve urban construction logistics	Taehoon Kim, Juho Han , Seben Yoon, Mingyun Kang, Sanghyeon Na: Approach for improving panaramic image segmentation quality on construction sites using SAM
Peter Niemczak, Anna Stefańska, Eugeniusz Koda: Smarter cities and the key to net zero emissions	Na Wang, Yujje Lu, Ruihan Bai, Jianyu Wang, Wei Wei: Efficiency improvement of blurring construction panoramic inspection based on improved NAFnet
Christian Koch: Prolonging the life-time of New Deal bridges	Žiga Turk, Sara Dotta: Surveying BIM's Impact on Education
Reza Maalek, Mustafa Al-Salihi: Terrestrial Laser Scanner Location and Path Planning on Construction Projects	Samuel Adekunle, Clinton Algbavboa, Andrew Ebekozien, Shola Akinshipe, Babatunde Ogunbayo: The missing puzzles for Macro BIM diffusion in South Africa
15:35 16:15 Coffee Break	
16:15 17:15	Creative Scheduling: Milds Hajdu Ahmad Hadavi, Sepehr Alizadehsalehi: Integrating the Lost Planner System and Metaverse
	Adel Francis: Develop antifacts to automate and optimize construction schedules for multi- storey buildings using a spatio-temporal model
	Israel Mariaca Clavel, Laura Florez-Perez, Carlos Galera Zarc: Automating construction scheduling data through BIM models, matchine learning. WBS, and resource constraints applied to bridge construction o
19:00 23:00 Conference dir	ner

Tuesday - July 2, 2024

Excursion+ Lunch

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9:00 16:00