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	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 venicle charging coordination	Coffee Break	Muntenuce systems Promoting Net Zero Principle's
11:15		Sustainable Construction, Health & Safety: Borja Garcia de Soto	Creative Management: István Hajnal	Automation and Robotics in Construction: Miroslaw Skibniewski
11.15	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 Chonge: 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 Structure 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		
14:20				
	14:30		Disperse to sessions	
14:30	14:30 15:45	Sustainable Construction, Health & Safety: Miklos Hajdu	Creative Management: Zoltán Sebestyén	Automation and Robotics in Construction: Zhiliang Ma
		Sustainable Construction, Health & Safety: Miklos Hajdu Soliu Idris, Giovanni C. Migliaccio, Idris Abdulgafar. Toward a Circular Built Environment: Exploring the Research Trends and Knowledge Gap		Automation and Robotics in Construction: Zhiliang Ma Reza Akhavian, Kunal Nandanwar : Optimizing Construction Site Surveys: BIM-Based Position Planning for Robotic Indoor Scanning
		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
		Soliu Idris, Giovanni C. Migliaccio, Idris Abdulgafar: Toward a Circular Built Environment: Exploring the Research Trends and Knowledge Gap Alon Urlainis, Igal M. Shohet: Integrating Maintenance into Seismic Risk Assessment: A	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 Turkyilmaz, Ayse Feride Armangil Gokalp, Gul Polat: A Bibliometric	Reza Akhavian, Kunal Nandanwa r : Optimizing Construction Site Surveys: BIM-Based Position Planning for Robotic Indoor Scanning Sungboo Yoon, Chaeeun LEE, SangHyun LEE, Moonseo PARK, Changbum R. Ahn: A Taxonomy of Extended Reality for Human-Robot Interaction in Construction Based on a
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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

9:00 16:00