

Sunday - June 15 2025

Opening ceremony

8:20	8:30	Keynote speech Miroslaw Skibniewski : Construction 5.0: origins and implications for the future of the industry		
8:30	9:20	Disperse to sessions		
9:20	9:30	Creative Management: Miklós Hajdu	Sustainable Construction, Health Safety: Ziga Turk	Automation and Robotics in Construction: Miroslaw Skibniewski
9:30	10:50	Seungwon Baek, Hongjo Kim, Tae-Hyun Kyung, Min-Wung Kim, Jisu Ahn : From digitization to digital transformation in infrastructure asset management: Challenges and future direction	Ximena Ferrada, Felipa Herrera, Jorge Contreras, Claudia Valdearrama-Ulloa : Lifestyle and health promotion among Chilean construction workers: A study based on the health-promoting lifestyle profile II	Peter Gölzhäuser , Anna Smirnova, Raquel Valles, Jan-wo Jäkel, Sabine Hartmann, Katherina Klemt-Albert: Analysis of AI-based evaluation methods of technical drawing in the context of semantic enrichment of 3D models
		Anja Breib, Aleksandar Srdić, Robert Klinc : Evaluation of privacy and security measures when using LLMs for construction management	Leonie Grosse-Wilde, Sven Mackenbach, Katharina Klemt-Albert : Identifying the Potential of Visual Programming for Integrating Building Information Modeling and Life Cycle Assessment	Muhammad Anas Gogoe, Samuel A. Prieto, Borja García de Soto : Enhancing human-machine interaction with on-device large language models in construction robotics: A case study on safety
		Agata Czarnikowska, Michal Tomczak : Construction cost contingency planning: still an art o already a science?	Michelle Kays, Charlotte Bartos, Sven Mackenbach, Katharina Klemt-Albert : Approach for semantic enrichment and validation of digital bridge models in sustainability assessment	Hanbin Luo, Ke Chen, Rubio Hu : Physics-Data Modeling for Enhanced Performance of Automated Construction Systems
		Saurav Dixit, Harshit Kumar, Priyanka Singh : Mechanical and microstructural properties of rubberized geopolymers: Modeling and optimization	Christian Koch : Reviewing "regenerative building" contributions to learn from the past and set directions for the future	Azi Tarantini, Himuro Fuku : Zero-Shot Object Detection and Segmentation for Construction Sites Through Multi-Model Integration
10:50	11:20	Coffee Break		
11:20	12:40	Creative Management: Ximena Ferrada	Sustainable Construction, Health Safety: Igal M. Shohet	Automation and Robotics in Construction: Miroslaw Skibniewski
		Carl Philipp Friedinger, Philip Sander : Digital process management in mega-projects with the software DigCon	Hoyoung Lee, Tae Wan Kim : Automated classification of construction workers' walking-related accidents in accident case database	Jonathan Matthies, Sven Mackenbach, Katharina Klemt-Albert : Development of an analysis system for processing citizen objections
		Mamoon Alouti : Necessity of integrating the principles of sustainable CPM knowledge for successful of design, execution and deliver of construction	Gili Lifshitz Sherzer, Alon Uralains, Igal M. Shohet : Time-dependent corrosion and seismic fragility: A framework for long-term risk mitigation	Jiayi Li, Zhiliang Ma, Guangtai Lin : Identification of surface structural-layer in road construction using low-altitude UAV imagery
		István Hajnal : Market-compliant methods in the socialist real estate sector: A case study of past Hungary	Shervin Rahnama, Christian Richter, Jan-wo Jaekel, Christian Buergy, Katharina Klemt-Albert : BIM-based assessment of ecological, economic and social sustainability for planning without sustainability expertise	Muhammad Anas Gogoe, Peihang Luo, Samuel A. Prieto, Erika Parr, Borja García de Soto, Ioannis Briakis : ILM-Driven Human-Robot Interaction with Digital Twins for Facility Management
		Tejas Gupta, Chirag Kothari, Sudhir Misra : Holistic approach for risk assessment of infrastructure projects: Case study of Indian highway PPP projects	Kangui Ren, Eren (M.) Shahrokh, Ali Golabchi, Gaang Lee : Feasibility of an integrated multi-model approach for dynamic musculoskeletal disorder risk assessment	Ali Mansour, Amine Abou Khalil, Hiam Khoury : Toward Spatial and Cognitive Human-Robot Interaction: A Game-Based Simulation for Concrete 3D Printing in Construction
12:40	13:40	Lunch		
13:40	14:20	Keynote speech: Ziga Turk : IS OUR RESEARCH INTERESTING: A REFLECTION		
14:20	14:30	Disperse to sessions		
14:30	15:50	Creative Management: Árpád Horváth	Sustainable Construction, Health Safety: Hiam Khoury	Automation and Robotics in Construction: Zhiliang Ma
		Zoltán Sebestyén, János Erdel, Gergely Lőrök : Exploring the role of TCQ factors in economic project success	Halch Sadeghi, Clara Cheung, Aklilu Yunusa-Kaltungo, Patrick Manu : A systematic literature review on maturity models for industry 4.0 adoption to improve OSH in MMC	Alon Uralains, Roee Levy, Shabtai Isaac : Synergizing Building Data and Seismic Risk: An Automated BIM-Based Design Approach
		Mahnaz Hassanpour, Jaqueline Gomes, Amin Khoshkenar, Hala Nassereddine : Integrating artificial intelligence into construction: Challenges, benefits and strategies	Lukasz Sadowski, Maciej Marut : Drones and remote sensing for non-destructive testing of marine concrete structures in the Baltic sea	Samuel A. Prieto, Muhammad Anas Gogoe, Juan Diego Castañó, Mohamed Benaich, Uday Menon, Borja García de Soto : Robotic systems for autonomous data acquisition in construction: A case study
		Hong Iawon, Beek Seungwon, Lee Sanghyun, Han Seunghoon : Exploring social conflict spread patterns for public railway projects using natural language processing	Fadi Shahin, Roi Naveh, Igal M. Shohet : Safety climate in high-rise construction	Gelare Taherian, Ehsan Rezaadeh Azar : Transforming vision-based indoor built environment management with few-shot learning
		Kyung-Eun Hwang, Inhan Kim : Enhancing smart urban regeneration with modular construction and circular economy strategies: Lessons from South Korean cases		Jihan Zhang, Duanqin Hong, Yijun Huang, Wenxing Hong, Xi Chen, Ben M. Chen : Historical Building Roof Structure Extraction Based on UAV Hyperspectral Imagery Reconstruction
15:50	16:20	Coffee Break		
16:20	17:40	Creative Management: István Hajnal	Sustainable Construction, Health Safety: Hiam Khoury	Automation and Robotics in Construction: Miroslaw Skibniewski
		Amin Khoshkenar, Hala Nassereddine : Enhancing state DOTs asset data maturity evaluation: Developing a digital twin-based framework	Andrew Shaw : Health-centric retrofitting in built environments: A systematic review of sustainable practices and health outcomes	Minwoo Jeong, Taegeon Kim, Seokhwan Kim, Kichang Choi, Seungwon Baek, Hongjo Kim : Retrieval-augmented code execution framework for automated structural calculation of precast concrete floor panels
		Christian Koch, Nicolaj Frederiksen : Public civil engineering projects - better than their reputation?	Younga Shin, Kichang Choi, Yeonjoo Kim, Hongjo Kim : Comparative Analysis of Short-Term Water Level Forecasting in Ungauged River Systems	Lingyue Wu, Anja P. R. Lauer : A Lashing-Mortise-Tenon Timber Joint for Automatic On-Site Assembly
		Bilalch Lamsaj, Masato Oka, Toki Ryota, Matteo Sardellini, Rimal Kumar KC, Naofumi Matsumoto : Development of a construction site's photo management and site inspection application using smartphone based indoor positioning and localization technology in a non-GPS environment.	Gal Shayn, Orna David, Levy Robert, Igal M. Shohet : Integrated fragility of underground critical infrastructures exposed to blast events	Feyzullah Yavan, Reza Maleek : Sketch-to-BIM: Enhancing the dynamo based automated truss design optimization workflow
			Michal Tomczak, Agata Czarnikowska : Testing strategies of climate change adaptation of buildings	Azra Iqbal Khan, Priyanka Singh, Saurav Dixit : Estimation of capacity and level of service of different weaving segments: A sustainable approach

Monday - June 16, 2025

Disperse to sessions

8:30	8:40	Disperse to sessions		
8:40	10:00	Creative Management: Zoltán Sebestyén	Sustainable Construction, Health Safety: Igal Shohet	Creative construction technology and materials: Zhiliang Ma
		Frederica Madaschi, Alessio Cocchiara, Marco Lorenzo Trani : Standardizing construction site equipment data: An IFC-compatible framework	Zuzanna Woźniak, Tomasz Nowobilski, Bożena Hol, Krzysztof Trybuszewski, Marta Stolarz : Application of machine learning algorithms in identifying falls in the workplace	Paweł Nowiadomski, Jerzy Łęka : Research and structural design of small residential unit made of paper-based products
		Frederica Madaschi, Cassandro Jacopo, Claudio Mirarchi, Marco Lorenzo Trani : Enhancing construction safety management: Structuring and integration of data through IFC	Rizwan U. Farooqui, Syed Muhammad Yasin Ashrafi, Syed M. Ahmed : Impact of emerging technologies on construction safety performance: A review	Mohamed AbdelRaheem, Tabatha Herzig, Daniel J. Weeks : Enhancing Concrete Performance with Silicon Carbide: Innovations and Future Prospects
		Christoph Mönicks, Sabrian Puslat : From data diversity to norms: Standardization strategies for construction logistics	Maria A. Mena, Ximena Ferrada, Claudia Valdearrama-Ulloa, Felipe Herrera : Women's participation in civil engineering: Challenges and opportunities in the construction industry	Mohamed Abdelraheem, Enrique Chiring : Further investigation of red mud utilization in high-strength concrete mixtures
		Bin Tang, Hanbin Luo : Computer vision and large language model-based safety management for construction project sites	Claudia Valdearrama-Ulloa, Jorge Contreras, Felipe Herrera, Ximena Ferrada : Impact of musculoskeletal disorders in construction: assessment and improvement strategies	Önder Halis Bettemir, Kázm Türker : Assessment of Self Compacting Concrete Tests by Image Analysis
10:00	10:30	Coffee Break		
10:30	11:50	Creative Management: Borja García de Soto	Sustainable Construction, Health Safety: Igal Shohet	Creative construction technology and materials: Mark Tatum
		Luying Zhu, Ding Yi, Wang Jialong : Unveiling the Trust Journey in Construction Projects: Insights from the Contractor's Perspective	Bernard Martin Arthur-Aidoo, Mitchell Obasi Addoo : Essential Determinants of Effective Health and Safety Performance Management on Construction Sites	Miao Liu, Hanbin Luo, Xu Chen : Bio-inspired microbial cementation: Organic additives enhancing bio-based construction materials
		Yadi Li, Yan Ning, Ning Sun, Jinfeng Shi : How organizational control and time pressure jointly affect design creativity: A configuration analysis	Jiale Zhang, Hanbin Luo, Shipping Liu : Staged refined restoration framework of architectural heritage damaged eaves tile of repeating patterns	Mark Tatum, Jennie Prange : A Comparative Analysis of Hydro Excavation and Vacuum Truck Technology Versus Traditional Methods
		Raquel Valles Gomez, Sabine Hartmann, Peter Gölzhäuser, Hannah Neubauer, Hendrik Morgenstern, Katharina Klemt-Albert : Use cases for digital methods in proactive maintenance of sewer infrastructure	Anoop Sattineni, Ahmed Madhkoor, Keith Rahm : The effectiveness of using BIM in veterans administration hospital projects	Takahiro Nakamura, Takeshi Ishida, Tomohiro Yoshida : Study on lifting and demolition method using diagonal slab cutting method
		Boya Amrollahibuki, Conrad Boton : Assessment of local environmental impacts in construction projects using KPI-based approach	Dalva Marcinkeviciute, Lukas Schildknecht, Manfred Huber, Marc Pancera, Joel Gschwind, Mischa Badertscher, Juan Crevillen : Simplification and enrichment of IFC models for cost estimation	Fadi Shahin, Shay Nachum, Yaron Shay, Ofer Mazur, Mark Talesnick, Aviad Shapira : Measurement and analysis of lateral pressure of concrete on vertical formwork using geotechnical tools: A lab experiment
12:00	13:00	Lunch		
13:10	14:00	Keynote speech: Miklós Hajdu : "Is there anything new to say about project delays?"		
14:00	14:10	Disperse to sessions		
14:10	15:30	Creative Management: Ximena Ferrada	Visualization: Saurav Dixit	Creative scheduling in construction: Adel Francis
		Anoop Sattineni, Karey Park, James Toyin : Mitigating the cost and schedule risks in remote construction project sites	Ryoyu Tanaka, Kosei Ishida : Advancing the BIB-based facility maintenance and management data analysis platform : A cloud-centric approach	Önder Halis Bettemir : Optimum Solution of Resource Leveling Problem by Complete Enumeration
		Konrad Neubauer, Hendrik Morgenstern, Katharina Klemt-Albert : A cluster analysis as the basis for a profitability analysis of BIM projects	Kojuen Takehara, Kosei Ishida : A study on the quantification of a floor plan using NPCs with needs-based AI in a 3D simulation	Adel Francis : Deliverable- driven agile management: A new paradigm for efficient construction project control
		Park Jaehyon, Seungwon Baek, Taegeon Kim, Nampyun Kim : Monetary benefit quantification for smart construction safety technology	Enrico Pasquale Zitoello, Francesca Porcellini, Antonio Salzano, Maurizio Nicoletta : Artificial intelligence and digitisation in the AEC sector from data collection to predictive optimization	Reem Zeibak-Shiul Reem, Amir Elias, Ory Shaked, Igal M. Shohet : BIM-based hybrid scheduling for high-rise buildings
		Oluwadamilola Aboderin, Kelechi Anyigor, Allan Osborne, Talib Butt : Flexible working in construction project management - sustaining team cohesiveness	Kun-Chi Wang, Yen-Jia Hsu : Applying gamification theory to enhance learning effectiveness in VR construction training	Miklós Hajdu, Adrienn Lepel : The walking dead at our contingency: A review of construction contingency planning
15:30	16:00	Coffee Break		
16:00	17:00	Visualization: Saurav Dixit		
		Tomohiro Yoshida : Study on the automatic generation of construction plans utilizing BIM		
		Saddiq Ur Rehman, Kyung-Eun Hwang, Inhan Kim : Integration of 4D BIM and VR for interactive modular building manufacturing simulations in a factory-controlled environment		
19:00	23:00	Gala dinner		

POSTERS

P-01	Myungsŏn Chae, Younggi Hong, Cho Jaeho : Location-based Last Job Risk Assessment and Real-time Fall Alerts Using Geofencing
P-02	Zoltán Sebestyén, Lőrök, Gergely, Vlaszov, Artúr : Simplification and Optimization of Project Structures Based on Precedence-Constrained Knapsack Problem
P-03	Shuijie Xu, Zhongnan Ye, Xiaoyi Liu, Shu-Chien HSU : BIM-ICA Integrated Environmental Evaluation for Sustainable Hospital Construction
P-04	Junyu Zhou, Zhiliang Ma : Framework design of datasets for multi-modal common LLMs for building construction
P-05	Zachary G. Kong, Jason Maximino C. Ongpep, Vachara Peansupap : Generative Design for Site Layout Optimization
P-06	Wenwu Zhang, Shu-Chien Hsu : Exploring the Driving Mechanisms of Carbon Emissions: A Multi-Factor and Cross-Industry Perspective Using Structural Equation Modeling
P-07	Qingyi Ulili : Analysis of the current situation and feasibility of remanufacturing solution in construction waste treatment