Wednesday - June 21, 2023

Time	Time		
8:20	8:30	Opening ceremony	
8:30	9:20	**Borja García de Soto**: Cybersecurity in a digital construction environment	
9:20	9:30	Disperse to sessions	

9:30	10:45	**Creative Construction Technology and Materials: Keith Rahn**	**Automation and Robotics in Construction: Miroslaw Skibniewski**
		Lee, JaeHee : Configuration of Object Division Function to Improve the Usability of the Design 3D Model in the Construction Stage	*Jung, Yuna* : Deep reinforcement learning driven autonomous flightz UAV for construction progress monitoring.
		Rolfsen, Christian Nordahl : Analysis and measures to improve the efficiency of Building Information Modelling in cost estimates	*Khoury, Hiam* : An Automated Semantic Segmentation-Free Approach to Point Cloud Scene Understanding in Construction
		Kovács, Tamás : Novel developments to precast bridge girder technology by the BME-ZÁÉV research cooperation	*García de Soto, Borja* : Developing a digital twin on a university campus to support efficient and sustainable buildings
		Wao, Joel : Value engineering for performance improvement of sustainable construction project	*Križaić, Vladimir* : Automation of construction production using the DSP method
		Lamsal, Bikash : A decentralized mobile-based morning assembly application for construction sites with GPS-assistance technology and intuitive UI/UX	*Soheila Antar* : Unmanned Aerial Systems for Safety Monitoring in Construction: Effect on Safety Performance

10:45	11:30	Coffee Break	

11:30	12:30	**Creative Management: Zoltán Vattai**	**Sustainable Construction, Health Safety: Hiam Khoury**
		Gokcen Arslan: The importance of feasibility study in the land selection process of projects: example of a residential land	*Shohet, Igal M.* : Riisk analysis of underground tunelled SMR NPP against munition hits
		Heidenwolf, Orsolya : Construction 4.0 maturity tool with ontology development methodology for organisations	*Ferrada, Ximena:* Auxiliary Equipment for Working at Heights: Workers' Perception of Safety Issues
		Becker, Simon Christian : Development of a project objective system (POS) to align the interests of all the stakeholders and find the right delivery model	*Xin-Lin Ji* : Negative carbon concrete for achieving next generation of sustainable and durable modular integrated construction (MiC): A review
		Sjekavica Klepo, Mariela : An Overview of Breakdown of Competences in Managing Major Construction Projects	*YehYang, Annette Yee Yen* : Study on the Relationship between Sustainable Cities and Urban Engineering Management in Undeveloped countries - A case study of Timor-Leste

12:30	13:30	Lunch	
13:30	14:20	**Teng Hooi Tan**: Opportunities and challenges of using Pre-Fabricated Pre-Finished Volumetric Construction for high-rise construction	
14:20	14:30	Disperse to sessions	

14:30	15:45	**Creative Management: István Hajnal**	**Automation and Robotics in Construction: Miroslaw Skibniewski**
		Thabet Walid : A Descriptive Digital Twin to Support Facility Maintenance	*Huang, Yusheng* : Simulation-based optimization of path planning of Camera-equipped UAV considering activities on construction site
		Durmus, Dilan : Innovative Tools for Better Use of the Knowledge in Facility Management for Construction	*Vidovszky, István:* Options of Automated Surveys for Maintenance Monitoring Services of Heritage Buildings
		Sjekavica Klepo, Mariela: Artificial Intelligence in Risk Management System on Infrastructure Projects	*Ni, Xiang-Rui* : DesignTracking: Track and Replay BIM-based Design Process
		Sattineni, Anoop : Exploring the Impact of Technology on HVAC Commissioning Practices	*Jiayi, Li* : iAutomated classification and coding for BIM components based on applicable big data
		Rahn, Keith : Engineering workforce planning, and workload management in the US Army Corps of Engineering	*Hajdu,Miklós:* Using the ChatGPT for solving a scheduling problem

15:45	16:30	Coffee Break	

16:30	17:30	**Creative Construction Technology and Materials: István Vidovszky**	**Creative Scheduling: Miklos Hajdu**
		Chassiakos, Athanasios : Evolutionary algorithms for construction site layout planning	*Tomczak, Michał* : Scheduling repetitive construction processes using a swarm algorithm
		Rahn, Keith : Evaluation of Modular Construction Methods Versus Traditional Construction Methods for Army Construction Projects	*Francis, Adel* : Automate and standardize multi-story building schedules through repetitive space-time model
		Yoon, Sebeen : A preliminary study on automatic jack support installation interval measurement model	*Lepel, Adrienn* : The behaviour of influence lines of schedule networks with maximal relationships
		Ramadan, Bassam : Impact of Workforce Training on Worker Performance in the Construction Industry	*Vattai, Zoltán András* : Activities of restricted duration in network time models of construction projects

Thursday - June 22, 2023

8:30	9:20	**Farzad Rahimian:** Industry 4.0 Paradigm for Building Design & Construction	
9:20	9:30	Disperse to sessions	
9:30	10:45	**Creative Management: Zoltán Sebestyén**	**Visualization: Thabet Walid**
		Iwamatsu, Jun : A Statistic Research on Changes in the Number of Bidders for Building Works Projects Using the Database in the Kanto Region	*Kovács, Bálint István* : The Theatre Metaphor for Spatial Computing in Architectural Design
		Das, Priyadarshini : Exploring the Role of Industry 4.0 in the Building Industry: A Case Study of Emerging Business Models in The Australian Construction Ecosystem	*Chudzinska, Agnieszka* : Urban energy recycling: An architectural road map
		Park, Jae-Wan: A Crack Detection Framework Based on Multi-Data Integration for Structure Maintenance	*Kang, Julian* : Production of Biomimetic Structures Using Voronoi Tessellation and 3D Printing Technology: Possibilities and Practical Issues
		Hijazi, Amer A .: A Roadmap to a Shared Vision for Platforms: The motivations and roles stakeholders in the transformation from projects to platforms	*Iwamura, Masato* : Research on workflow improvement in the early stage of apartment design using BIM
		Wao, Joel : Effect of building information modeling (BIM) innovetion on quality surveying.	*Hartmann, Sabine* : A Case Study of BIM Projects in Hospital Construction - Comparing Germany to the International Status
10:45	11:15	Coffee Break	
11:15	12:15	**Creative Management: Borja Garcia de Soto**	**Sustainable Construction, Health Safety: Igal Shohet**
		Ramadan, Bassam : Workforce Challenges and Strategies of Top Contractors in the United States	*Ferrada, Ximena* : Diseases in construction workers: a critical review and research opportunities
		Namgoong, Do : Social acceptance assessment model for public construction projects using KoBERT	*Fan, Hongqin* : Construction equipment emission control status, policies, and regulations in China
		Hajnal, István: Centralized operation of residential buildings: Case study from the past Budapest	*Gabrijel, Ivan* : Evaluation of wood fly ash as a cement replacement material in concrete
		Kang, Mingyun : Computer vision-based tile counting model for automated progress monitoring	*Adewale Adelakun:* Viability of off-grid containerized reverse osmosis water treatment in Maiduguri, Nigeria
12:30	13:30	Lunch	
13:30	14:20	**Attila Pém:** Behind the scenes: an insight into the development of an award-winning cultural project	
14:20	14:30	Disperse to sessions	
14:30	15:45	**Creative Construction Technology and Materials: Keith Rahn**	**Creative Scheduling: Adel Francis**
		Han, Wenbin : An assembled and interlocking lunar base and its structural analysis during and after construction	*Aminbakhsh, Saman* : An ε-constraint Method with Adaptive Mode Elimination Scheme for Multi-objective Mixed Integer Programming
		Gabrijel, Ivan : Impact of circulating fluidized bed fly ash on strength development of self-compacting concrete	*Galic, Mario* : Data acquisition system for automated updating of precast concrete project schedule
		Tatum, Mark: The Effects on Cost, Time, and Accuracy When Using Unmanned Aircraft Systems to Measure Sloped Excavations	*Ishida, Kosei* : Study on simulation technology to evaluate the construction period from BIM data
		Tan, Teng Hooi : iReaching new heights in the use of concrete prefabricated prefinished volumetric construction (PPVC): Two blocks of 56-storey residential towers in Singapore.	*Hajdu,Miklós:* A criticism of the EVM method
		Niewiadomski, Pawel : Recycling of spent fluid catalytic cracking catalyst towards sustainable cementitious composites	*Song, Seung Ho* : Analysis of Potential Schedule-Delaying Elements for Volumetric Module Transportation
15:45	16:15	Coffee Break	
16:15	17:15	**Mixed: Adel Francis**	**Sustainable Construction, Health Safety: Ximena Ferrada**
		Hammad, Amin : End-to-End Pavement Defect Classification and Localization Using Deep Learning	*Daleyev, Dalel* : Potential of structural multi-objective optimization of reinforced concrete slabs in the context of sustainable development
		Lijie, Chen : Integrated concrete mix design with sustainability, cost and durability based on artificial intelligence	*Urlainis, Alon*: BIM-Based Seismic Risk Assessment Framework for Infrastructures Systems
		Sebestyén,Zoltán : A fundamental overview of the concept of quality in project management	*Samaro, Nour* : Assessment of overheating risk in free-running residential buildings in Palestine under future climate
		Aynur Hurriyet Turkyilmaz : IMPLEMENTATION OF CONSTRUCTION 4.0 TECHNOLOGIES IN THE TURKISH CONSTRUCTION INDUSTRY	*Trautz, Martin* : Design and Natural Materials – Innovative Approaches for a Sustainable Future Architecture and Structural Engineering
19:30	23:30	Gala dinner	

Friday - June 23, 2023

9:00	16:00	Excursion+ Lunch