Conference Day 4 / Wednesday, August 28, 2024 / icccbe 24 Montreal

ROOM	E2021	E2022	E2023	E2024	A1424
	H-1: Automation and robotics for construction	I-1 : Asset management and maintenance management	B-9 : Building Information Modelling	A-1 : Analysis, simulation and sensing	V-1
9:10	*16 - Investigating the Barriers to the Adoption of 3D Printing Technology in the Turkish Construction Industry* **Leva Latifiilkhechi**, Saman Aminbakhsh, Emre Akcay	*8 - A review of blockchain-based S- Digital Twins in the AEC sector in the context of application* **Jascha Brötzmann**, Uwe Rüppel	*175 - A Theoretical Framework for Developing an LOD500 Level Production Process Model for Steel Structural Components* Ming Lu, **Ye Peng**	*38 - Prediction of Expansion Joint Life in Concrete Pavements* Hui Rak Ahn, Young Kyu Kim, **Seung Woo Lee**	*17-Multi-agent-based swarm gas source localization using nano aerial robots* Jan Stührenberg, Felix Häusler, Patrick Neumann, **Kosmas Dragos**, Kay Smarsly
9:30	*67 - Development of automatic steel deck cutting system using a multi-axis robot for power plant construction work* **Tsuyoshi Yamada**, Naoya Shinoda, Kazuyuki Takeuchi, Munechika Masaki	*30 - Data-based Assessment of the Resilience of Municipal Road Infrastructure as a Component of Sustainable Asset Management* **Alexander Buttgereit**, Daniel Gogolin, Stefan Gomolluch, Uwe Reinhardt, Marko Tesic	*183 - Comprehensive clash avoidance in multidisciplinary BIM coordination using a rule-based system* **Tabassum Mushtary Meem**, Omar Doukari, Ivanka Iordanova	*39 - A smart monitoring approach based on decentralized S- Digital Twins* **Kosmas Dragos**, Kay Smarsly	*18-Autonomous navigation of quadruped robots for monitoring and inspection of civil infrastructure* **Aditya Tandon**, Jan Stührenberg, Kosmas Dragos, Kay Smarsly
9:50	*68 - Toward future-proof Asset Information Management* Marlena Block, Alexander Buttgereit, **Markus König**	*80 - Management of physical asset problem and possible solutions applicable through use of Spatial web tools* **Eleonora Franco**	*197 - Comprehensive Analysis of Security and Privacy mechanisms in CDE based BIM collaboration* **Anja Brelih**, Robert Klinc	*77 - Dev. of an Electronic Guidance Device "eGuiDev" based on Wireless Communication Tech. for Pedestrian Navigation* Abduaziz Juraboev, Abdulrahman Othman, Rüdiger Kern, Joaquín Díaz, **Uwe Rüppel**	*74-Enhancing information extraction from German Regulatory Documents using Deep learning* **Sherief Ali**, Markus König
	H-2 : Automation and robotics for construction	I-2 : Asset management and maintenance management	B-10 : Building Information Modelling	A-2 : Analysis, simulation and sensing	V-2
10:30	*211 - Multi-Objective Optimization of a Sustainable Ternary Mortar for 3D Printing* **Willy Jin**, Claudiane Ouellet-Plamondon, Jean-François Caron French Presentation	*247 - Analysis of software solutions to find the most suitable project delivery model* **Simon Becker**, Philip Sander	*236 - The IPD contract methodology as a strategic element in the management of building projects* **Paula da Silva**, dalberto Fischman, Sergio Scheer, Silvio Melhado	*114 - Formation process simulation method based on the real construction data for vibro stone columns* **Daoxiang Chen**, Peng Lin, zhiwei zhang, Guo Li	*244-Relationship between Subjective and Physiological Responses across Various Ergonomic Interventions in Shoveling Gravel* **Xinran Hu**, Xingzhou Guo, Yunfeng Chen, Jiansong Zhang
10:50	*84 - Electrodermal Activity as an Indicator of Cognitive Load for Human-Robot Collaboration in Construction* **Seulbi Lee**, Bogyeong Lee	*59 - Where Project Governance and Sustainability Meet? A Literature Review* **Sara Rankohi**, Caroline Coulombe, Nathalie Drouin, Mario Bourgault, Robert Pellerin, Jonathan Harvey	*246 - First Investigations of Advanced Operators for Consistent Spatial Modeling the Built Environment* **Maximilian Sternal**, Sebastian Oswald, Wolfgang Huhnt	*224 - Automated FEM-Based Determination of Thermal Diffusivity and Temperature Profile for Rockfall Prediction* **Jaka Dujc**, Mateja Jemec Auflič	*233 - A BIM-based Digital Twin for Construction Pollution Management in Building Renovation Projects* Truong-An Pham, **Veerasak Likhitruangsilp**, Photios G. Ioannou
11:10	*242 - An Assessment of The Usage of Collaborative Robotics in the South African Construction Industry* **Ayanda Boya**, Opeoluwa Akinradewo, Clinton Aigbavboa	*75 - Achieving best value: benefits and shortcomings of recent amendments to the Act respecting contracting by public bodies* **Gabriel Jobidon**, Antoine Pellerin French Presentation		*227 - Interactive light and sound-sensitive mortar for architectural environments* **Karina Hwang Arcolezi**, Bora Ung, Claudiane Ouellet-Plamondon	