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

ROOM	E2021	E2022	E2023	E2024	A1424
	H-1: Automation and robotics for construction Chair: Seulbi Lee	**I-1 : Asset management and maintenance management** Chair: Sara Rankohi	**B-9 : Building Information Modelling** Chair: Silvio Melhado	**A-1 : Analysis, simulation and sensing** Chair: Jaka Dujc	**V-3: Virtual session** Chair: Stéphane Morin-Pépin
9:10	*16 - Investigating the Barriers to the Adoption of 3D Printing Technology in the Turkish Construction Industry* **Leva Latifiilkhechi SC**, Saman Aminbakhsh, Emre Akcay	*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	*175 - A Theoretical Framework for Developing an LOD500 Level Production Process Model for Steel Structural Components* Ming Lu, **Ye Peng SC**	*134-Simulation-Based Predictive Analytics for Construction Safety Incidents* Abbey Dale Abellanosa, Hamidreza Golabchi, Stephen Hague, Simaan AbouRizk, Yasser Mohamed. Presenter : **Abbasianfar Vahid**	*74-Enhancing information extraction from German Regulatory Documents using Deep learning* **Sherief Ali**, Markus König
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	*8 - A review of blockchain-based S- Digital Twins in the AEC sector in the context of application* **Jascha Brötzmann**, Uwe Rüppel	*183 - Comprehensive clash avoidance in multidisciplinary BIM coordination using a rule-based system* **Tabassum Mushtary Meem SC**, Omar Doukari, Ivanka Iordanova	*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**	*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 SC**	*197 - Comprehensive Analysis of Security and Privacy mechanisms in CDE based BIM collaboration* **Anja Brelih SC**, Robert Klinc	*227 - Interactive light and sound-sensitive mortar for architectural environments* **Karina Hwang Arcolezi SC**, Bora Ung, Claudiane Ouellet-Plamondon	*17-Multi-agent-based swarm gas source localization using nano aerial robots* Jan Stührenberg, Felix Häusler, Patrick Neumann, **Kosmas Dragos**, Kay Smarsly
	H-2 : Automation and robotics for construction Chair: Claudiane Ouellet-Plamondon	**I-2 : Asset management and maintenance management** Chair: Alexander Buttgereit	**B-10 : Building Information Modelling** Chair: Silvio Melhado	**A-2 : Analysis, simulation and sensing** Chair : Uwe Rueppel	**V-4: Virtual session** Chair: Stéphane Morin-Pépin
10:30	*211 - Multi-Objective Optimization of a Sustainable Ternary Mortar for 3D Printing* **Willy Jin SC**, Claudiane Ouellet-Plamondon, Jean-François Caron French Presentation	*247 - Analysis of software solutions to find the most suitable project delivery model* **Simon Becker SC**, Philip Sander	*236 - The IPD contract methodology as a strategic element in the management of building projects* **Paula da Silva SC**, dalberto Fischman, Sergio Scheer, Silvio Melhado	*114 - Formation process simulation method based on the real construction data for vibro stone columns* **Daoxiang Chen SC**, Peng Lin, zhiwei zhang, Guo Li	*40 - Digital Twins, architectures, and elements in civil engineering – A multivocal literature review* Kay Smarsly, Muhammad Ahmad, Patricia Peralta, Thamer Al-Zuriqat, Heba Al-Nasser, **Kosmas Dragos**, Carlos Chillón Geck
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	*39 - A smart monitoring approach based on decentralized S- Digital Twins* **Kosmas Dragos SC**, Kay Smarsly
11:10	*242 - An Assessment of The Usage of Collaborative Robotics in the South African Construction Industry* **Ayanda Boya SC**, 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		*163-Prototyping a Wireless Hardware System for Automated Collection and Transmission of Audio and Kinematic Data at Construction Jobsites* SeyedeZahra Golazad, Farzad Ordubadi, Abbas Mohammadi, Armin Tajalli, Abbas Rashidi, **Sadegh Asgari**	*117 - Correlating Interfacial Shear Strength and Material Properties in Fiber-Reinforced Composites* **Soheila Kookalani**, Erika Parn, Ioannis Brilakis, Rongyan Li, Zhiqi Hu