Conference Day 2 / Monday, August 26, 2024 / icccbe 24 Montreal

ROOM	E2021	E2022	E2023	E2024	E2025
	M-1 : Education	L-1 : Big Data, data mining, machine learning and artificial intelligence	B-1 : Building Information Modelling	N-1 : Advancing construction safety, health, and well-being	G-1: Virtual Reality and Augmented Reality (VR/AR)
		15 - Machine Learning and Internet of Things for Construction Air Pollution Monitoring and Prediction Ruichuan Zhang, Irene Paek, Samuel Park, Jenna Krall	157 - BIM-Based Configuration System for Early Stages of Modular Residential Projects Bruno Llave	193 - Hazards Identification and Impact Reduction for At-Risk Construction Activities Using 3D BIM and VR Marcel Maghiar, Sudeep Pangeni, Gustavo Maldonado, Soonkie Nam	33-Ink or Pixels: Exploring the impact of hand-drawing skills on learning abilities in a Tech-Savvy Generation Z Jean-Pierre Basson, Riëtte Kotzé
	Education in Engineering	25 - Transparency and Trust: Evaluating XAI for Critical Infrastructure Systems – A Comprehensive Analysis Jens Wala		110 - A Knowledge Graph-based App. for Const. Safety Hazards Mngmt and Rectification Measures Intelligent Recommend. Yunfei Xiang, Peng Lin, Yiming Luo, Houlei Xu, Zeyu Ning, Yu Qiao, Mengxia Zhou	32-Architectural Design Revolution: Enhancing student learning through VR Jean-Pierre Basson, Ashvin Manga
	259 - Developing Adaptive Educational Spaces through a theoretical framework based on Modularity and digital design Salma Omrani, Ivanka Iordanova	34 - Natural Language Communication with Sensor Data through a LLM-integrated Protocol: a Case Study Fanglal Jia, Arianna Fonsati, Kjartan Gudmundsson	12 - Enhancing design coordination across disciplines through incremental model updates and Inter-discipline Conjunction Graphs Sebastian Esser, André Borrmann	218 - Recurrent neural network-based workers' posture and workload estimation on building construction sites King Chi Lo, Man Sau Tsoi, Francis Siu, Geoffrey Shen, Chi-Keung Lau	285-Virtual Reality Experience and Motion Sickness in Construction Human-Robot Collaboration Learning . Adetayo Onososen, Innocent Musonda, Thembani Moyo .
10:50	221 - BIM training through a Project-Based Active Learning Adam Yousfi, Nathalia De Paula, Cloé Arnould, Brenda Da Silva Laurindo, Ivanka Iordanova, Ali Motamedi, Erik Poirier French Presentation	35 - Integrating Machine Learning for Cyber Risk Analysis in Construction 4.0 Dongchi Yao, Borja García de Soto	24 - Conceptual Framework for Integrating Building Information Modelling (BIM) with Pavement Management System (PMS) Retno Utami, Carlos Osorio-Sandoval, Nicholas Thom	268 - Implementation of Wearable Technologies for Enhancing Sofety Monitoring in Construction Sites: A Trend Analysis Ayodele Fasoyinu, Anoop Sattineni, JAMES TOYIN, Salman Azhar	
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