2:30 PM - 2:50 PM DEVELOPING A WORKFLOW FOR CLOUD-BASED INSPECTION OF TEMPORARY STRUCTURES IN CONSTRUCTION, Chang Liu, Sara Shirowzhan, Samad M.E. Sepasgozar

2:30 PM - 2:50 PM A REAL-TIME PATH-PLANNING MODEL FOR BUILDING EVACUATIONS, Brenda McCabe, Farid Mirahadi

2:30 PM - 2:50 PM BIM IMPLEMENTATION IN A CONSTRUCTION COMPANY, Dominique Mansur, Erik Santos

2:30 PM - 2:50 PM LIVE DATA VISUALIZATION OF IOT SENSORS USING AUGMENTED REALITY (AR) AND BIM, Ali Motamedi, Worawan Natephra

2:30 PM - 2:50 PM A REAL-TIME 4D AUGMENTED REALITY SYSTEM FOR MODULAR CONSTRUCTION PROGRESS MONITORING, Zhiyang Lin, Frank Petzold, Zhiliang Ma

2:30 PM - 2:50 PM ICCREM Keynote SPOIL HANDLING IN AUSTRALIA, Ali Rahimzadeh, Willy Sher, Patrick Tang, Peter Catto

2:30 PM - 2:50 PM AN ANALYSIS OF THE PROBLEMS OF BIM-BASED DRAWINGS AND IMPLEMENTATION DURING THE CONSTRUCTION DOCUMENT PHASE, Yije Kim, Sangyoon Chin

2:50 PM - 3:10 PM DEVELOPMENT OF AN EARTHMOVING MACHINERY AUTONOMOUS EXCAVATOR DEVELOPMENT PLATFORM, Rauno Heikkilä, Tomi Makkonen, Ilpo Nishanen, Matti Immonen, Mikko Hiltunen, Tanja Kolli, Pekka Tyyska

2:50 PM - 3:10 PM THE ABC'S OF MODULAR AND PREFABRICATED CONSTRUCTION, Malcom Hachborn, Brian Hall

2:50 PM - 3:10 PM DEVELOPMENT OF AN AUGMENTED REALITY SENSORS USING AUGMENTED REALITY AND BIM, Ali Motamedi, Mani Moezzi, Mohammad Ali Saeedi

2:50 PM - 3:10 PM AN IMAGE AUGMENTATION METHOD FOR DETECTING CONSTRUCTION RESOURCES USING CONVOLUTIONAL NEURAL NETWORK AND UAV IMAGES, Seongdeok Bang, Francis Blae, Somin Park, Wonhee Kim, Hyoungkwan Kim

2:50 PM - 3:10 PM DEVELOPMENT OF AN EYE- AND GAZE-TRACKING MECHANISM IN AN ACTIVE AND ASSISTED LIVING ECOSYSTEM, Alexander Liu Cheng, Nestor Llorca Vega, Galgot Latorre

2:50 PM - 3:10 PM RESEARCH ON THE PROBLEM OF SOCIAL STABILITY RISK ASSESSMENT FOR MAJOR PROJECTS, Siyu Luo

2:50 PM - 3:10 PM THE LEGACIES OF MANUFACTURING AND FACTORIES OF INDUSTRIALISED CONSTRUCTION, Rachel Cooper, Duncan Maxwell, Mathew Aitchison

2:50 PM - 3:10 PM APPLYING AN A-STAR SEARCH ALGORITHM FOR GENERATING THE MINIMIZED MATERIAL SCHEME FOR THE REBAR QUANTITY TAKEOFF, Shen Chang, Ruei-Shiue Shiu, I-Chen Wu

3:10 PM - 3:30 PM IMPLEMENTATION FRAMEWORK FOR BIM ADOPTION AND PROJECT MANAGEMENT IN PUBLIC ORGANIZATIONS., Giuseppe Miceli Junior, Paulo C. Pellanda, Marcelo de Miranda Reis

3:10 PM - 3:30 PM BIM-BASED AUTOMATED DESIGN CHECKING FOR HOUSE BUILDERS IN THE LIGHT-FRAME BUILDING INDUSTRY, Heeu Liu, Harish Kampanawar, Mohamed Al-Kassim, Ali Ali

3:10 PM - 3:30 PM DEVELOPMENT OF AN AUTOMATED MONITORING AND CONTROL SYSTEM FOR CAPITAL CONSTRUCTION PROJECTS, Reza Movassagh, Jonas Rusewitz, Devan Licht

3:10 PM - 3:30 PM COMPUTER VISUAL TECHNIQUES IN CONSTRUCTION, OPERATION AND MAINTENANCE PHASES OF CIVIL ASSETS: A CRITICAL REVIEW, Shuyuan Xu, Zhi-Qian Zhang, Wei Pan, Zhen-Jie Zheng

3:10 PM - 3:30 PM RESEARCH ON THE QUALITY DEMAND OF CONSTRUCTION MANAGEMENT INDUSTRY BASED ON FACTOR ANALYSIS, Yingying Luo

3:30 PM - 3:50 PM CLASSIFICATION AND EXEMPLARY BIM MODEL DEVELOPMENT OF DESIGN CHANGES. Jia-Rui Lin, Yu-Cheng Zhou, Jian-Ping Zhang, Zhen-Zhong Hu

3:30 PM - 3:50 PM CHARACTERIZATION OF THE LATERAL RESISTANCE OF STAPLED SHEAR WALLS, Roberto Aranda, Alexander Salenikovich, J. Daniel Dolan, Peter Dracht

3:30 PM - 3:50 PM USING SCAN-TO-BIM TECHNIQUES TO FIND OPTIMAL MODELING EFFORT, A METHODOLOGY FOR ADAPTIVE DATABASE MANAGEMENT. Firas Habbal, Fawad Habbal, Abdallah Al Shawabkeh, Abdulla Al Nuaimi

3:30 PM - 3:50 PM USING VIRTUAL REALITY SIMULATION FOR OPTIMIZING TRAFFIC MALL AND SHOPS DESIGN, Guangshe Jia, Hongyun Ma, Zhongyu Wang, Zhiyang Xu, Yuhao Liu, Meng Zhang

3:30 PM - 3:50 PM USING BIM AND SENSING MATS TO IMPROVE INDOOR POSITIONING ACCURACY, Chia-Hsien Chen, I-Chen Wu

3:30 PM - 3:50 PM USING BIG DATA AND ADVANCED ALGORITHMS TO IMPROVE BIM-BASED INDOOR POSITIONING ACCURACY, Chia-Hsien Chen, I-Chen Wu

3:50 PM - 4:10 PM A STUDY ON CONSTRUCTION-OPERATION INTEGRATED MANAGEMENT OF MEGAPROJECT: A CASE OF ABC INTERNATIONAL AIRPORT, Guangshe Jia, Hongyun Ma, Zhongyu Wang, Zhiyang Xu, Yuhao Liu, Meng Zhang

3:50 PM - 4:10 PM SMART MANUFACTURING SUPPORT TO PRODUCT PLATFORMS IN THE INDUSTRIALIZED HOUSE BUILDING – A CASE STUDY. Alexander Vestin, Shamshad Thaqi, Djepe Pupotic

3:50 PM - 4:10 PM ASSESSMENT/DIGITAL INFORMATION MANAGEMENT BETWEEN DESIGN AND PRODUCTION IN INDUSTRIALISED HOUSE BUILDING – A CASE STUDY. Hessel Eriksson, Marcus Sandberg, Anir Mukherjee, Gustav Simonsson, Lars Stahle