

Session 1E. Robotics, Automation, and Control 3
Moderator: Kevin Han (NC State University)

- 13:00** #146. Enhancing Visual SLAM with Occupancy Grid Mapping for Real-Time Locating Applications in Indoor GPS-Denied Environments
Lichao Xu, Chen Feng, Vineet Kamat and Carol Menassa
- 13:15** #310. Industrialized Construction: Emerging Methods and Technologies
Mohamad Ahmadzade Razkenari, Qi Bing, Andriel Evandro Fenner, Hamed Hakim, Aaron **Costin** and **Charles Kibert**
- 13:30** #371. Automating the Digital Fabrication of Concrete Formwork in Building Projects: Workflow and Case Example
Mohammad Sadra Fardhosseini, Hamid Abdirad, Carrie Dossick, Hyun Woo Lee, Renzo **DiFuria** and **Joshua Lohr**
- 13:45** #301. State-of-the-Art Review on the Applicability of AI Methods to Automated Construction Manufacturing
Mohsen Hatami, Ian Flood, Bryan Franz and Xun Zhang
- 14:00** #64. Game Simulation to Support Construction Automation in Modular Construction Using BIM and Robotics Technology – Stage I
Oscar Wong Chong and Jiansong Zhang
- 14:15** #234. UAV-UGV Cooperative 3D Environmental Mapping
Pileun Kim, Leon Price and Yong Cho
- 14:30** #416. Vision-based Obstacle Removal System for Autonomous Ground Robots Using Robotic Arm
Khashayar Asadi, Rahul Jain, Ziqian Qin, Mingda Sun, Mojtaba Noghabaei, Kevin Han, Jeremy Cole and Edgar Lobaton
- 14:45** #404. Factors Influencing Measurement Accuracy of Unmanned Aerial Systems (UAS) and Photogrammetry in Construction Earthwork
Xi Wang, Julia Chen and Gabriel Dadi