

***Session 4B. Simulation and Process Modeling 2***  
***Moderator: Amirhosein Jafari (Louisiana State University)***

- 10:00** #283. Analysis of Lighting Occupancy Sensor Installation in Building Renovation using Agent-Based Modeling of Occupant Behavior  
**Seddigheh Norouziasl, Amirhosein Jafari and Chao Wang**
- 10:15** #31. Proposing a Multi-Staged Calibration Methodology for System Dynamics Construction Management Models  
**Ibrahim Abotaleb and Islam El-Adaway**
- 10:30** #423. Three-Tiered Simulation Framework for Modeling Bridge Girders Fabrication Processes in a Steel Fabrication Shop  
**Ming Lu, Monjurul Hasan and Arash Mohsenijam**
- 10:45** #20. Multi-Objective Simultaneous Optimization for Linear Projects Scheduling  
**Mohamed S. Eid, Emad E. Elbeltagi and Islam H. El-Adaway**
- 11:00** #134. A Cost Model to Evaluate the Economic Performance of Contour Crafting  
**Xun Zhang, Ian Flood, Yuanxin Zhang, Hashem Izadi Moudand Moshen Hatami**
- 11:15** #214. Integrating Fuzzy Agent-Based Modeling and Multi-Criteria Decision-Making for Analyzing Construction Crew Performance  
**Nebiyu Siraj Kedir, Mohammad Raoufi and Aminah Robinson Fayek**
- 11:30** #3. Effect of Improving Cost Estimating Accuracy in Competitive Bidding  
**Sadegh Asgari**
- 11:45** #226. A simulation Framework for Technology Adoption Decision Making in Construction Management: A Composite Model  
**Chukwuma Nnaji, Ifeanyi Okpala and Sungjin Kim**