

**Session 4A. Simulation and Process Modeling I**  
**Moderator: Youngcheol Kang (Yonsei University)**

- 10:15** #30. A Network-Based Methodology for Quantitative Knowledge Gap Identification in Construction Simulation and Modeling Research  
**Ibrahim Abotaleb and Islam El-Adaway**
- 10:30** #412. Use of Simulation Software and Passive Design Strategies for School Design  
**Chang-Ray Chen and Frida Cobar**
- 10:45** #25. Conceptual Quantitative Model to Group Risks in Fast-Track Construction Projects  
**Claudia Garrido Martins, Susan M. Bogus and Vanessa Valentin**
- 11:00** #54. A hybrid simulation approach for understanding the social contagion effect of safety violations within the construction crew  
**Huakang Liang and Ken-Yu Lin**
- 11:15** #22. Optimal Construction Facilities Location Selection for Linear Infrastructure Projects  
**Amr G. Mansour, Mohamed Eid and Emad Elbeltagi**
- 11:30** #139. Performance Assessment for Claim Management in Construction  
**Wonkyoung Seo and Youngcheol Kang**