

## Department of Systems Engineering and Engineering Management

### Seminar Series

# **Mediation Analysis: the Relationship between Safety Climate and Safety Performance among Hong Kong Construction Management Personnel with Technology Acceptance as a Mediator**

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Date	29 May 2018 (Tuesday)
Time	10:30am - 11:30am
Venue	B6619, 6/F, Yeung Kin Man Academic Building

### **Abstract**

Safety climate is a construct reflecting the true priority of safety within an organization, and it has long been applied as a reliable predictor of safety performance (e.g. accident rates and occupational injuries). With advancement in technology, there is increasing use of advanced technologies in the construction industry for enhanced productivity and reduced cost as well as improved quality and safer work environment. However, there have been no studies so far examining the role of workers' acceptance of construction technologies in safety improvement, despite their frequent interaction with a wide variety of construction technologies in construction workplaces. This study aims at identifying the relationship between safety climate and safety performance for construction management personnel in Hong Kong, with technology acceptance as a mediator. The results showed the perceived usefulness of construction technologies served as a mediator in the underlying mechanism of the indirect relationship between the safety climate of an organization and the safety performance of the construction management. Also, perceived ease of use was found to exert an indirect effect on safety performance mediated by perceived usefulness. According to these results, three relevant recommendations for improving the safety performance of construction management personnel have been made.

## About the Speaker

**Man Siu Shing** is a Ph.D candidate in the department of Systems Engineering and Engineering Management, City University of Hong Kong. His main research interests are construction safety, risk-taking behavior, risk perception.

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***All are Welcome!***

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