

## Call for Organized Session of ISCIIA 2018

### **(1) Title of the Organized Session**

Application Modelling and Simulation Techniques in Exploring Complex Socio-Technical Systems

### **(2) Principal Organizer Information**

Dr. Chenggang Yin

College of Engineering, China Agricultural University, Beijing, China 100083

Email: cgyin@cau.edu.cn

### **(3) Session Description**

Modelling and simulation (M&S) techniques are becoming an important research approach in the study of complex socio-technical systems (STS), e.g. new product development process (NPDP), product life-cycle management (PLM), and other complex scientific and societal systems. Interested issues covered in this section includes, but not limited to: modelling and simulation, Discrete-Event Simulation (DES), Agent-Based Simulation (ABS), system dynamics (SD) simulation, operation system simulation, System of Systems (SoS) simulation, societal system simulation, simulation procedures, simulation tools, MatLab simulation, Monte Carlo simulation, model verification and validation, simulation validation strategies and methods, modelling and simulation methods, industrial operational applications, and others.

### **(4) Biography**

Dr. Chenggang Yin is a Lecturer in Department of Mechanical Design and Manufacture, College of Engineering, China Agricultural University. He holds a PhD in Mechanical Engineering at University of Leeds. He obtained M.Eng at Beijing Institute of Technology. He worked as a research fellow (internal team leader) for a H2020 project RiserSure at London South Bank Innovation Centre (LSBIC) in TWI Ltd between 2016 and 2017. He worked as a project engineer at InnoTecUK Ltd from 2014 to 2016. He has been a visiting scholar at University of Alberta, Canada between 2009 and 2010. His research interests include modelling and simulation, agent-based modelling and simulation, complex design system, product design and development, decision-making mechanism, organizational behavior, and so forth.