

Preliminary Program

Thursday, June 25

- 10:00 a.m. Registration
- 11:00 a.m. **Workshop Opening and Welcome**
- PLENARY:** Monte Carlo simulation environments and designing algorithms for them: n thoughts, where n is a positive integer
Bruce Schmeiser (Purdue University)
- 12:30 p.m. Lunch
- 1:45 p.m. **Session: Input Modeling**
Advances in modeling and simulation of nonstationary arrival processes
Michael E. Kuhl (Rochester Institute of Technology) and James R. Wilson (North Carolina State University)
- Modeling and simulation non-Poisson arrival processes to facilitate analysis
Barry L. Nelson (Northwestern University) and Ira Gerhardt (Manhattan College)
- 2:45 p.m. Break
- 3:00 p.m. **PLENARY:** How modeling limits analysis – the long way from distributed simulation to reality
Peter Lendermann (D-SIMLAB Technologies)
- 4:00 p.m. Break
- 4:30 p.m. **Session: Distributed Simulation**
Embedded ad hoc distributed simulation for transportation system monitoring and control
Michael Hunter (Georgia Institute of Technology), Jason Sirichoke (Hewlett-Packard Company), Richard Fujimoto (Georgia Institute of Technology) and Ya-Lin Huang (Georgia Institute of Technology)
- Analysis of output data in distributed simulation
B. Vinod Kumar Reddy and Jayendran Venkateswaran (Indian Institute of Technology – Bombay)
- 6:00 p.m. Cocktails followed by BBQ Dinner served at 7:00 p.m.

Friday, June 26

- 8:30 a.m. **PLENARY: Non-standard statistical metamodels**
Russell Cheng (University of Southampton)
- 9:30 a.m. Break
- 10:00 a.m. **Session: Analysis Methods I**
Application of Monte Carlo sampling to assess experimental designs in developmental test
Derek A. Leggio (United States Strategic Command) and Raymond R. Hill (Air Force Institute of Technology)
- Comparison of simulation output series using bootstrapping
Christine S.M. Currie and Lanting Lu (University of Southampton)
- Session: Supply Chain**
A web based simulation application
Cathal Heavey (University of Limerick), James Byrne (University of Limerick), Paul Liston (University of Limerick) and P.J. Byrne (Dublin City University)
- Modeling and analyzing cargo screening processes: a project outline
Peer-Olaf Siebers (Nottingham University), Uwe Aickelin (Nottingham University), David Menachof (City University London), Galina Sherman (University London) and Peter Zimmerman (King's College London)
- 11:00 a.m. Break
- 11:15 a.m. **Session: Analysis Methods II**
Robust simulation optimization
Jack P.C. Kleijnen (Tilburg University), Gabriella Dellino (University of Siena), and Carlo Meloni (Polytechnic of Bari)
- Monte Carlo inference on sample -path roots
Raghu Pasupathy (Virginia Tech)
- Session: Modeling Methods and Applications**
A simulation based and an analytic modeling approach to calculate an appropriate number of FOUPs in wafer fabs
Lars Mönch (University of Hagen), Jens Zimmermann (University of Hagen), John W. Fowler (Arizona State University) and Scott J. Mason (University of Arkansas)
- A virtual power system testbed for cyber security decision support
David M. Nicol (University of Illinois at Urbana-Champaign), Charles M. Davis (PowerWorld Corporation) and Thomas Overbye (University of Illinois at Urbana-Champaign)
- 12:30 p.m. Lunch

- 1:45 p.m. **PLENARY:** The key to promoting interaction between simulation modeling and analysis research: practice
Douglas J. Morrice (The University of Texas at Austin)
- 2:45 p.m. Break
- 3:00 p.m. **Session: Output Analysis**
Data collection budget allocation for stochastic data envelopment analysis
Loo Hay Lee, Wai Peng Wong and Wikrom Jaruphongsa (National University of Singapore)
- Automating discrete event simulation output analysis – automatic estimation of number of replications, warm-up period and run length
Kathryn Hoad, Stewart Robinson and Ruth Davies (The University of Warwick)
- Session: Healthcare**
Modeling and analysis of the trade-offs in surgical suite performance measures
Serhat Gul (Arizona State University), John W. Fowler (Arizona State University) and Brian T. Denton (North Carolina State University)
- A proposed approach for modeling care pathways for infrastructure design briefing
Amna Shibeika and Colin Gray (University of Reading)
- 4:00 p.m. Break
- 4:30 p.m. **Session: Output Analysis/Dynamic Learning**
The problem of the initial transient (again), or why MSER works
K. Preston White, Jr. (University of Virginia) and Stewart Robinson (University of Warwick)
- Dynamic learning in human decision behavior for evacuation scenarios under BDI Framework
Seungho Lee and Young-Jun Son (The University of Arizona)
- Session: Agent-based Simulation**
Investigating output accuracy for a discrete event simulation model and an agent based simulation model
Mazlina Abdul Majid, Uwe Aickelin and Peer-Olaf Siebers (Nottingham University)
- Determining the range of predictions for calibrated agent-based simulation models
DongFang Shi and Roger J. Brooks (Lancaster University Management School)
- 6:30 p.m. Motor Coach Departs for Dinner and Tour of St. Mary's Guild Hall

Saturday, June 27

- 8:30 a.m. **PLENARY:** Why modeling still matters in discrete simulation
Michael Pidd (Lancaster University Management School)
- 9:30 a.m. Break
- 10:00 a.m. **Session: Modeling Methods II**
A general SYSML model for discrete processes in production systems
Oliver Schönherr and Oliver Rose (Dresden University of Technology)
- Database meets simulation: tools and techniques
Peter J. Haas (IBM Almaden Research Center) and Christopher Jermaine (Rice University)
- What contributes to the quality of simulation results?
Jan Himmelspach and Adelinde M. Uhrmacher (University of Rostock)
- 11:30 a.m. Break
- 11:45 a.m. **Panel Discussion**
- 12:30 p.m. Lunch