



**SCS Founder: John McLeod**

**SCS Executive Committee**

- David Cook, President  
*Stephen F. Austin State University, USA*
- Mohammad S. Obaidat, Immediate Past President  
*Monmouth University, USA*
- Jerry M. Couretas, President-Elect  
*Lockheed Martin, USA*
- John (Drew) Hamilton Jr., Past President  
*Auburn University, USA*
- Hamid Vakilzadian, VP Conferences  
*University of Nebraska-Lincoln, USA*
- Helena Szczerbicka, VP Education  
*University of Hannover, Germany*
- Ralph Huntsinger, VP Membership  
*California State University, Chico, USA/LITIS, INSA de Rouen, France*
- Gabriel Wainer, VP Publications  
*Carleton University, Canada*
- Richard MacDonald, Secretary  
*RAM Laboratories, Inc., USA*
- Oletha Darensburg, Executive Director  
*SCS - San Diego, USA*

**Directors at Large**

- Agostino Bruzzone,  
*University of Genoa, Italy*
- Michael J. Chinni  
*US Army - RDECOM - ARDEC, Picatinny Arsenal, NJ, USA*
- Ralph Huntsinger (SCS Historian)  
*California State University, Chico, USA*
- Mike McGinnis  
*University of Nebraska, USA*
- John Sokolowski  
*Virginia Modeling, Analysis and Simulation Center, Old Dominion University, USA*
- Helena Szczerbicka  
*University of Hannover, Germany*
- Andreas Tolk  
*Old Dominion University, USA*
- Bill Waite  
*Aegis Technologies Group, Inc., USA*
- Levent Yilmaz  
*Auburn University, USA*

**SCS Staff**

- Chelsea Fleming, Executive Assistant  
 Aleah Hockridge, Membership Director  
 Vicki M. Pate, Managing Editor



# SIMULATION

*Transactions of The Society for Modeling and Simulation International*

July 2012

Volume 88 Number 7

**Special Issue: Principles of Advanced and Distributed Simulation (PADS)**

**Editorial**

Special issue: principles of advanced and distributed simulation  
*Francesco Quaglia and Rob Simmonds* 767

**Articles**

Discrete event modeling and massively parallel execution of epidemic outbreak phenomena  
*Kalyan S Perumalla and Sudip K Seal* 768

Ad hoc distributed simulation methodology for open queueing networks  
*Ya-Lin Huang, Christos Alexopoulos, Michael Hunter and Richard M Fujimoto* 784

Multicore acceleration of Discrete Event System Specification systems  
*Qi Liu and Gabriel Wainer* 801

Towards flexible exascale stream processing system simulation  
*Alfred J Park, Cheng-Hong Li, Ravi Nair, Nobuyuki Ohba, Uzi Shvadron, Ayal Zaks and Eugen Schenfeld* 832

A framework for simulation-based optimization of business process models  
*Farzad Kamrani, Rassul Ayani and Farshad Moradi* 852

**Original Articles**

A life cycle for modeling and simulation  
*Osman Balci* 870

A parallel simulator for network terminal packet buffer  
*Yul Chu, Jin Hwan Park, Yan Bai, Jae Sok Son and Sanjeev Kumar* 884

<http://sim.sagepub.com>  
 Free access to tables of contents and abstracts. Site-wide access to the full text for members of subscribing institutions.

