



Editorial

The *Journal of Simulation* is one year old!

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Discrete-event simulation is enjoying a renaissance! Our discipline continues to rapidly develop at a remarkable rate worldwide. The quality of papers at the Winter Simulation Conference and conferences of societies such as our Operational Research Society Simulation Workshop, the Society for Computer Simulation (SCS), the Association for Computing Machinery Special Interest Group for Simulation (ACM SIGSIM), the IEEE Computer Society, the Institute for Operations Research and Management Science Simulation Society (INFORMS-Sim) and the German Simulation Society (ASIM) is increasing and represents substantial work indicative of a strong, thriving international community.

As the editors of *JOS* we are proud that our journal is now one year old. We have had an exciting first year! We have received many fascinating contributions from across the diverse catchment area of discrete-event simulation and associated fields. In Volume 1 we published three issues and 19 papers. Contributions have provided stimulating debate on the future of discrete-event simulation and its methodologies and software. These papers have also covered a wide range of domains including biology, defence, finance, health and manufacturing. *JOS* 1.3 also had the ‘theme’ of Conceptual Modelling and represents an important contribution to this remarkably neglected area of discrete-event simulation. To give you a ‘taste’ of Volume 1, here are the titles of papers published this year.

Volume 1, Number 1

So where to next? A survey of the future for discrete-event simulation

SJE Taylor, Brunel University, Middlesex, UK; and S Robinson, University of Warwick, Coventry, UK

Simulation software: not the same yesterday, today or forever

M Pidd and A Carvalho, Lancaster University, Lancaster, UK

Six ways to improve a simulation analysis

SE Chick, Technology and Operations Management Area, INSEAD, Fontainebleau, France

Using agent-based simulation to empirically examine search theory using a historical case study

RR Hill, Wright State University, Dayton, OH, USA; RG Carl, Missile Defense Agency, Schriever AFB, CO, USA; and LE Champagne, Air Force Logistics Management Agency, Montgomery, AL, USA

Input modelling for financial simulations using the bootstrap

H Huang, Fair Isaac Corporation, Irvine, CA, USA; and TR Willemain, Department of Decision Sciences and Engineering Systems, Rensselaer Polytechnic Institute, Troy, NY, USA

Validating and comparing simulation models using resampling

RCH Cheng, University of Southampton, Southampton, UK

Volume 1, Number 2

An integrated and adaptive decision-support framework for high-tech manufacturing and service networks

P Lendermann, Singapore Institute of Manufacturing Technology, Singapore; SJ Turner, Nanyang Technological University, Singapore; MYH Low, Nanyang Technological University, Singapore; BP Gan, Singapore Institute of Manufacturing Technology, Singapore; N Julka, Singapore Institute of Manufacturing Technology, Singapore; LP Chan, Singapore Institute of Manufacturing Technology, Singapore; WT Cai, Nanyang Technological University, Singapore; LH Lee, National University of Singapore, Singapore; EP Chew, National University of Singapore, Singapore; SY Teng, National University of Singapore, Singapore; and LF McGinnis, Georgia Institute of Technology, Atlanta, GA, USA

Discrete event modelling and simulation in systems biology

R Ewald, C Maus, Modeling and Simulation Laboratory, University of Rostock, Rostock, Germany; A Rolfs, Neurobiological Laboratory, University of Rostock, Rostock, Germany; and A Uhrmacher, Modeling and Simulation Laboratory, University of Rostock, Rostock, Germany

Bayesian methodology for dynamic modelling

CSM Currie, School of Mathematics, University of Southampton, Southampton, UK

Simulation of passenger vehicle order fulfilment processes

PG Brabazon, BL MacCarthy, Nottingham University Business School, Nottingham, UK; and RW Hawkins, Ford Motor Company, Eagle Way, Warley, Brentwood, UK

Modelling human performance within manufacturing systems design: from a theoretical towards a practical framework

TS Baines, Cranfield University, Cranfield, UK; and O Benedettini, Polytechnic University of Bari, Bari, Italy

Stream correlations in multiple recursive and congruential generators

R Davies, University of Warwick, Coventry, UK; and RJ Brooks, Lancaster University, Lancaster, UK

Efficiency of importance sampling estimators

W Sandmann, University of Bamberg, Bamberg, Germany

Volume 1, Number 3

Improving the understanding of conceptual modelling

W Wang and RJ Brooks, Lancaster University Management School, Lancaster, UK

Investigating the use of software requirements engineering techniques in simulation modelling

JD Arthur, Virginia Tech, Blacksburg, VA, USA; and RE Nance, Orca Computer, Inc., Blacksburg, VA, USA

Conceptual modelling for designing large-scale simulations

O Balci, Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, Virginia, USA; and WF Ormsby, Naval Surface Warfare Center, Dahlgren, Virginia, USA

Developing participative simulation models—framing decomposition principles for joint understanding

D-J van der Zee, University of Groningen, Groningen, The Netherlands

Development of a process modelling tool for simulation

J Ryan, Dublin Institute of Technology, Dublin, Ireland; and C Heavey, University of Limerick, Limerick, Ireland

Using soft systems methodology to determine the simulation study objectives

K Kotiadis, University of Warwick, Coventry, UK

Looking to the future, Volume 2 will again be three issues and begins with ‘Taming the Complexity Dragon’, a fascinating paper from Jim Henriksen, one of the ‘Titans of Simulation’ recognized at the Winter Simulation Conference 2006 and President of Wolverine Software. There are many more excellent papers in the pipeline! We look forward to further high-quality manuscripts in the future.

We would like to take the opportunity to thank the UK Operational Research Society, Palgrave and our Advisory and Editorial Boards for their continued and enthusiastic support!

Here’s to a great year two!

Editors

SJE Taylor and
S Robinson