



Simulation Foundations, Methods and Applications

Series Editor:

Louis G. Birta, University of Ottawa, ON, Canada

Advisory Board:

Roy E. Crosbie, California State University, Chico, USA

Tony Jakeman, Australian National University, Australia

Axel Lehmann, Universität der Bundeswehr München, Germany

Stewart Robinson, Loughborough University, UK

Andreas Tolk, Old Dominion University, USA

Bernard P. Zeigler, George Mason University, USA

Simulation Foundations, Methods and Applications hosts high-quality contributions that address the various facets of the modelling and simulation enterprise, ranging from the fundamentals to the exploration of emerging concepts and advances in the expanding landscape of application areas. There is an expectation that modelling issues will be appropriately addressed in each presentation. Incorporation of case studies and simulation results is encouraged. The underlying intent is to facilitate and promote the sharing of creative ideas across discipline boundaries.

A wide range of topics are accommodated; including (but not limited to):

- Validation, Verification and Accreditation
- Large-scale and Scalable Simulation
- Simulation Interoperability
- Unified Discrete and Continuous Simulation
- Optimization Approaches in Simulation
- Agent-Based Methodologies
- Simulation in a Cloud Computing Environment
- Simulation in a High Performance Computing Environment
- Simulation Languages, Tools and Environments
- Distributed and Parallel Simulation
- Real-time Simulation
- Visualization Tools/Techniques in Simulation
- Focused Applications in Existing or Emerging Areas

Titles can span a variety of product types, including but not exclusively, textbooks, expository monographs, contributed volumes, research monographs, professional texts, guidebooks and other references.

These books will appeal, varyingly, to students and researchers in any of a host of disciplines where modelling and simulation has become (or is becoming) a basic problem-solving tool. Some titles will also directly appeal to modelling and simulation professionals and practitioners.

Available and forthcoming titles:

Guide to Dynamic Simulations of Rigid Bodies and Particle Systems, M.G. Coutinho

Guide to Modeling & Simulation of Systems of Systems, B. Zeigler and H.S. Sarjoughian

Modelling and Simulation, 2nd Ed., Louis G. Birta and Gilbert Arbez

Modeling and Simulation in the Systems Engineering Life Cycle, M.L. Loper

Multiphysics Simulation, Ercan M. Dede, Jaewook Lee and Tsuyoshi Nomura

Introduction to Transportation Analysis, Modeling and Simulation, D.P.F. Moeller

Distributed Simulation, O. Topçu, U. Durak, H. Oğuztüzün and L. Yılmaz

Get Read. Publish With Springer.

When you publish with Springer your work gets the attention it deserves:

- ▶ dedicated and professional editorial guidance
- ▶ standardized production processes and speedy publication
- ▶ immediate global visibility and availability
- ▶ royalties reflecting a diversity of revenue streams

Do you want the widest possible continuous readership for your book?

When you publish with us, your work will:

- ▶ always be available in print with print-on-demand
- ▶ be accessible 24/7 worldwide online and on e-reading devices
- ▶ be available to students and peers for 24.99 EUR/USD

Let your book benefit from being part of the largest STM eBook Collection

Springer's world-leading and highly interdisciplinary eBook Collection is widely used in academic, corporate and governmental libraries. Your eBook will benefit from cross-linking and increased usage through seamless integration with other content on our online content platform SpringerLink.

SpringerLink generates 450 million visits per year, and the Collection has:

- ▶ more than 51,000 eBooks currently available (textbooks, monographs, edited volumes, proceedings)
- ▶ more than 200 online reference works currently available
- ▶ approximately 7,000 new eBooks added per year
- ▶ more than 2,700 online journals

When you publish your book with Springer you will profit from the high usage and visibility of this Collection. Your eBook will also be fully hyperlinked and conveniently searchable, qualities that have made eBooks a widely adopted format.

MyCopy – your book available for 24.99 EUR/USD

Springer offers readers a convenient way to obtain a printed version of your eBook file for personal use: MyCopy.

It allows library patrons to order a softcover for 24.99 EUR/USD, provided their library has access to Springer's eBook Collection.

The MyCopy service is expanding and is currently available in over 20 countries. See springer.com/mycopy

This unique format will boost the popularity of your book.



How we help you get more readers

We are committed to optimizing the visibility of your book; our ongoing efforts include:

- ▶ free online review copies for magazines and journals
- ▶ promotional flyer in convenient PDF format
- ▶ inclusion in Google's eBookstore
- ▶ distribution through Amazon, with "Look Inside" feature and Kindle edition

More information and services for authors: springer.com/authors

We look forward to receiving your book proposal for
Simulation Foundations, Methods and Applications

Please contact Wayne Wheeler at wayne.wheeler@springer.com



<http://www.springer.com/series/10128>

Simulation Foundations, Methods and Applications

Series Ed.: Birta, L.G.

ISSN: 2195-2817