



# Simulation Foundations, Methods and Applications

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*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, 2<sup>nd</sup> 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

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