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The Cumulative Book Index
1995

Handbook of Simulation Jerry Banks 1998-09-14 The only complete guide to all aspects and uses of simulation-from the international leaders in the field There has never been a single definitive source of key information on all facets of

discrete-event simulation and its applications to major industries. The Handbook of Simulation brings together the contributions of leading academics, practitioners, and software developers to offer authoritative coverage of the principles, techniques, and uses of discrete-event simulation. Comprehensive in

scope and thorough in approach, the Handbook is the one reference on discrete-event simulation that every industrial engineer, management scientist, computer scientist, operations manager, or operations researcher involved in problem-solving should own, with an in-depth examination of: * Simulation methodology, from experimental design to data analysis and more * Recent advances, such as object-oriented simulation, on-line simulation, and parallel and distributed simulation * Applications across a full range of manufacturing and service industries * Guidelines for successful simulations and sound simulation project management * Simulation software and simulation industry vendors

Artificial Neural Networks
Pankaj Mehra 1992
[Artificial Intelligence, Simulation, and Modeling](#)
Lawrence E. Widman
1989-09-06 This interdisciplinary approach to computer modeling addresses both traditional simulationists

seeking the greater representational flexibility and ease of use that AI techniques offer, and computer scientists seeking the greater power and realism that rigorous simulation techniques can provide. First section reveals the theoretical underpinnings of AI and simulation. Second section describes application of simulation techniques to current problems in AI research. Third section discusses application of AI methods to simulation.

Advances in Modeling and Simulation Andreas Tolk
2017-08-27 This broad-ranging text/reference presents a fascinating review of the state of the art of modeling and simulation, highlighting both the seminal work of preeminent authorities and exciting developments from promising young researchers in the field. Celebrating the 50th anniversary of the Winter Simulation Conference (WSC), the premier international forum for disseminating recent advances in the field of system simulation, the book showcases

the historical importance of this influential conference while also looking forward to a bright future for the simulation community. Topics and features: examines the challenge of constructing valid and efficient models, emphasizing the benefits of the process of simulation modeling; discusses model calibration, input model risk, and approaches to validating emergent behaviors in large-scale complex systems with non-linear interactions; reviews the evolution of simulation languages, and the history of the Time Warp algorithm; offers a focus on the design and analysis of simulation experiments under various goals, and describes how data can be “farmed” to support decision making; provides a comprehensive overview of Bayesian belief models for simulation-based decision making, and introduces a model for ranking and selection in cloud computing; highlights how input model uncertainty impacts simulation optimization, and proposes an

approach to quantify and control the impact of input model risk; surveys the applications of simulation in semiconductor manufacturing, in social and behavioral modeling, and in military planning and training; presents data analysis on the publications from the Winter Simulation Conference, offering a big-data perspective on the significant impact of the conference. This informative and inspiring volume will appeal to all academics and professionals interested in computational and mathematical modeling and simulation, as well as to graduate students on the path to form the next generation of WSC pioneers.

Numerical Experiments in Stratigraphy John Warvelle Harbaugh 1999 This volume summarizes the status of computer modelling of sedimentary and stratigraphic processes and demonstrates the potential of these studies. The papers in the volume collectively illustrate the utility of stratigraphic modelling for

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incorporating an synthesizing geologic, geophysical and petrophysical data for increasing understanding of sedimentary and stratigraphic systems and the distribution of natural resources.

The Calculus of Conventional

War Joshua M. Epstein

2010-12-01 Conventional

forces absorb the preponderance of America's defense spending. Further, most experts believe the most likely path to nuclear war is through a failure of conventional defense. It is therefore critical that conventional military balances be assessed rigorously—by techniques that go beyond the familiar static comparison of opposing military inventories and explicitly represent warfare's dynamic factors. For decades, a single set of tools has dominated the dynamic analysis of conventional balances: the Lanchester equations, named for their inventor, Frederick William Lanchester. In this study, Joshua M. Epstein makes two separate contributions. He

argues that Lanchester's equations fail to capture the basic dynamics of warfare and that they offer a fundamentally implausible picture of combat. He also presents new, alternative equations of his own. These, he contends, do capture warfare's essential dynamics, which Lanchester theory is incapable of representing. Epstein's methods are of immediate practical relevance in assessing the requirements of defense in the specific contingencies for which the United States and its allies must plan and in setting defense priorities accordingly.

Proceedings 1994

Euro-DAC '93, European Design Automation Conference with Euro-VHDL '93 1993

Books in Print Supplement

2002

Proceedings of the ...

International IEEE

Conference on Tools for Artificial Intelligence 1993

Proceedings of the International Conference on Expert Systems for Development 1994

Artificial Neural Networks

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Lipo Wang 1993
Simulation Modeling Methods

H. James Harrington 2000
Computer simulation can save time, resources, money and risk in manufacturing. The focus of this manual and CD-ROM is to assist individuals in organisations who need to apply simulation to projects before committing resources and time.

Whitaker's Books in Print 1998
AI, Simulation and Planning in High Autonomy Systems

1993 Annotation Proceedings of the Fourth Annual Conference on [title] held in Tucson, Arizona, September 1993. Contributors explore the perplexing theme of integrating virtual reality and model-based environments. Discussion encompasses VR concepts, technology, and applications. No index.

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Records of the 1993 IEEE International Workshop on Memory Testing, August 9-10, 1993, San Jose, California

Rochit Rajsuman
1993 From the August 1993

workshop in San Jose, California, 26 papers report the latest findings on testing computer memory. The sections include test pattern generation, algorithms, fault models, testing for process defects and yield improvement, and radiation issues and space applications. No subject i
Advice To A Young Scientist P.
B. Medawar 2008-08-01 To those interested in a life in science, Sir Peter Medawar, Nobel laureate, deflates the myths of invincibility, superiority, and genius; instead, he demonstrates it is common sense and an inquiring mind that are essential to the scientist's calling. He deflates the myths surrounding scientists -- invincibility, superiority, and genius; instead, he argues that it is common sense and an inquiring mind that are essential to the makeup of a scientist. He delivers many wry observations on how to choose a research topic, how to get along with collaborators and older scientists and administrators, how (and how

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not) to present a scientific paper, and how to cope with culturally "superior" specialists in the arts and humanities.

Statistical Tools for Simulation Practitioners

Jack P. C. Kleijnen 1987

Proceedings, Ninth Annual Computer Security Applications Conference, December 6-10, 1993, Orlando, Florida 1993

Verification and Validation in Computational Science and Engineering Patrick J. Roache 1998

Conference on Local Computer Networks 1993

Object-Oriented Simulation with Hierarchical, Modular Models Bernard P. Zeigler

2014-05-10 Object-Oriented Simulation with Hierarchical, Modular Models: Intelligent Agents and Endomorphic Systems describes an approach to object-oriented discrete event simulation and the concepts of hierarchical, modular model construction, The implementation of the concepts of multifaceted modeling methodology in the DEVS-Scheme modeling and

simulation environment is discussed. The use of the DEVS-Scheme environment in modeling artificial intelligent agents is also considered, along with the concept of endomorphism to characterize the application of self-embedded models, including models of self. Comprised of 15 chapters, this book begins with an overview of the dimensions of knowledge representation in simulation environments, followed by a discussion on object-oriented programming as well as the concepts of modular, hierarchical models and the system entity structure. Subsequent chapters focus on digraph-models and experimental frames; DEVS formalism and DEVS-Scheme simulation environment; a model base for simple multi-computer architectures; and rule-based specification of atomic models. Model bases in endomorphic systems and intelligent agents are also examined. This monograph will be of interest to simulation theorists as well as practitioners and researchers

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in the fields of artificial intelligence, systems engineering, computer science and engineering, and operations research. Software Education Conference (SRIG-ET '94) Martin Purvis 1995 *TIMS/ORSA Bulletin* Institute of Management Sciences 1981 *Modeling and Simulation Environment for Satellite and Terrestrial Communications Networks* A. Nejat Ince 2012-12-06 Modeling and Simulation Environment for Satellite and Terrestrial Communications Networks: Proceedings of the European COST Telecommunications Symposium will be of interest to network designers, developers, and operators. This book is a collection of papers given at the European Cost Telecommunications Symposium. The Symposium was broken down into four sessions: Modelling and Simulation. Teletraffic Modelling. Communications Networks Simulation. Problems in Simulation. Each session addressed a wide spectrum of

subjects. The symposium covered nearly all of the important aspects of simulation modeling and tools for the design and performance evaluation of communication techniques and systems. Emerging techniques were emphasized. Modeling and Simulation Environment for Satellite and Terrestrial Communications Networks: Proceedings of the European COST Telecommunications Symposium is a useful reference work for practicing engineers and academic researchers.

Discovery United States Air Force Academy 1983

Validating and Verifying Knowledge-based Systems

Uma G. Gupta 1991 This collection of previously published papers brings together state-of-the-art developments in expert system testing. The volume is separated into five chapters on expert system validation, knowledge base verification, development and evaluation, case studies and tools, and general topics. The paper

**Notices of the American
Mathematical Society**

American Mathematical
Society 1979

*American Book Publishing
Record Cumulative 1993* R R
Bowker Publishing 1994-03
Cited in BCL3, Sheehy, and
Walford . Compiled from the 12
monthly issues of the ABPR,
this edition of the annual
cumulation lists by Dewey
sequence some 41,700 titles
for books published or
distributed in the US. Entry
information is derived from
MARC II tapes and books
submitted to R.R. Bowker, an
Simulation Validation Peter
L. Knepell 1993-06-13 Helps
you ensure that your
simulations are appropriate
representations of real-world
systems. The book
concentrates on the
differentiation between the
assessment of a simulation tool
and the verification and
validation of general software
products. It is a systematic,
procedural, practical guide that
you can use to enhance the
credibility of your simulation
models. In addition, it is a

valuable reference book and a
road map for software
developers and quality
assurance experts, or as a text
for simulation methodology and
software engineering courses.
This book details useful
assessment procedures and
phases, discusses ways to tailor
the methodology for specific
situations and objectives, and
provides numerous assessment
aids. The reader can use these
aids to support ongoing
assessments over the entire life
cycle of the model.

**AIAA Guide for the
Verification and Validation
of Computational Fluid
Dynamics Simulations**

American Institute of
Aeronautics and Astronautics
1998 This document defines a
number of key terms, discusses
fundamental concepts, and
specifies general procedures
for conducting verification and
validation of computational
fluid dynamics simulations. It's
goal is to provide a foundation
for the major issues and
concepts in verification and
validation. However, it does
not recommend standards in

these areas because a number of important issues are not yet resolved.

Betrayers of the Truth William J. Broad 1983 "Fraud and deceit in the halls of science"-- Cover subtitle.

Simulation and Model-Based Methodologies: An Integrative View Tuncer I. Ören
2012-12-06 NATO Advanced Institute Ottawa, Ontario/ Canada, July 26 - August 6, 1982

1993 Computer Architectures for Machine Perception Magdy A. Bayoumi
1993 Proceedings of the Computer Architectures for Machine Perception Workshop held Dec. 15-17, 1993 in New Orleans, Louisiana. Papers came from several communities: computer architecture; pattern recognition; image processing and analysis; computer vision; and VLSI. No index. Annotation copyright Book N

Multidatabase Systems A. R. Hurson 1994 Introduction to multidatabase systems; The global information-sharing environment; Multidatabases

issues; Multidatabase design choices; Current research in multidatabase projects; the future of multidatabase systems; About the authors.

Government Reports Annual Index 1982

The Simulation Metamodel
Linda Weiser Friedman
2012-12-06 Researchers develop simulation models that emulate real-world situations. While these simulation models are simpler than the real situation, they are still quite complex and time consuming to develop. It is at this point that metamodeling can be used to help build a simulation study based on a complex model. A metamodel is a simpler, analytical model, auxiliary to the simulation model, which is used to better understand the more complex model, to test hypotheses about it, and provide a framework for improving the simulation study. The use of metamodels allows the researcher to work with a set of mathematical functions and analytical techniques to test simulations without the costly running and re-running

of complex computer programs. In addition, metamodels have other advantages, and as a result they are being used in a variety of ways: model simplification, optimization, model interpretation, generalization to other models of similar systems, efficient sensitivity analysis, and the use of the metamodel's mathematical functions to answer questions about different variables within a simulation study.

[Fifth International Conference on Tools with Artificial Intelligence 1993](#)
[Proceedings, the 10th International Conference on Data Engineering IEEE Computer Society. Technical Committee on Data Engineering 1994](#)

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