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DISCRETE-EVENT SYSTEM SIMULATION

Prentice Hall Discrete Event System Simulation is ideal for junior- and senior-level simulation courses in engineering, business, or computer science. It is also a useful reference for professionals in operations research, management science, industrial engineering, and information science. While most books on simulation focus on particular software tools, Discrete Event System Simulation examines the principles of modeling and analysis that translate to all such tools. This language-independent text explains the basic aspects of the technology, including the proper collection and analysis of data, the use of analytic techniques, verification and validation of models, and designing simulation experiments. It offers an up-to-date treatment of simulation of manufacturing and material handling systems, computer systems, and computer networks. Students and instructors will find a variety of resources at the associated website, www.bcnn.net/, including simulation source code for download, additional exercises and solutions, web links and errata.

HANDBOOK OF SIMULATION

PRINCIPLES, METHODOLOGY, ADVANCES, APPLICATIONS, AND PRACTICE

John Wiley & Sons 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

MODELLING EVENT-BASED INTERACTIONS IN COMPONENT-BASED ARCHITECTURES FOR QUANTITATIVE SYSTEM EVALUATION

KIT Scientific Publishing This dissertation thesis presents an approach enabling the modelling and quality-of-service prediction of event-based systems at the architecture-level. Applying a two-step model refinement transformation, the approach integrates platform-specific performance influences of the underlying middleware while enabling the use of different existing analytical and simulation-based prediction techniques.

MODELING AND TOOLS FOR NETWORK SIMULATION

Springer Science & Business Media A crucial step during the design and engineering of communication systems is the estimation of their performance and behavior; especially for mathematically complex or highly dynamic systems network simulation is particularly useful. This book focuses on tools, modeling principles and state-of-the art models for discrete-event based network simulations, the standard method applied today in academia and industry for performance evaluation of new network designs and architectures. The focus of the tools part is on two distinct simulations engines: OmNet++ and ns-3, while it also deals with issues like parallelization, software integration and hardware simulations. The parts dealing with modeling and models for network simulations are split into a wireless section and a section dealing with higher layers. The wireless section covers all essential modeling principles for dealing with physical layer, link layer and wireless channel behavior. In addition, detailed models for prominent wireless systems like IEEE 802.11 and IEEE 802.16 are presented. In the part on higher layers, classical modeling approaches for the network layer, the transport layer and the application layer are presented in addition to modeling approaches for peer-to-peer networks and topologies of networks. The modeling parts are accompanied with catalogues of model implementations for a large set of different simulation engines. The book is aimed at master students and PhD students of

computer science and electrical engineering as well as at researchers and practitioners from academia and industry that are dealing with network simulation at any layer of the protocol stack.

SIMULATION OF DYNAMIC SYSTEMS WITH MATLAB AND SIMULINK

CRC Press Simulation is increasingly important for students in a wide variety of fields, from engineering and physical sciences to medicine, biology, economics, and applied mathematics. Current trends point toward interdisciplinary courses in simulation intended for all students regardless of their major, but most textbooks are subject-specific and consequently are not suitable for such a course. Simulation of Dynamic Systems with MATLAB® and Simulink® offers a unified introduction to continuous simulation that focuses on the common principles underlying the vast array of simulation models that describe very different phenomena. Written by accomplished expert Harold Klee, this text builds an in-depth and intuitive understanding of the basic concepts and mathematical tools that students can easily generalize to their own field of study. The author includes case studies, real-world examples, abundant homework problems, and thousands of equations to develop a practical understanding of the concepts. Moreover, he incorporates MATLAB® and Simulink® tools to help students gain experience with designing, implementing, and adjusting their simulations. This classroom-tested text works systematically through linear, continuous-time, and discrete-time dynamic systems as well as basic, intermediate, and advanced topics in numerical integration. Supplying downloadable MATLAB M-files and Simulink model files, Simulation of Dynamic Systems with MATLAB® and Simulink® is ideal for a one- or two-semester course in continuous simulation, offering valuable flexibility for instructors.

MATHEMATICAL AND COMPUTATIONAL MODELS

Allied Publishers

PARALLEL AND DISTRIBUTED PROCESSING

10TH INTERNATIONAL IPPS/SPDP'98 WORKSHOPS, HELD IN CONJUNCTION WITH THE 12TH INTERNATIONAL PARALLEL PROCESSING SYMPOSIUM AND 9TH SYMPOSIUM ON PARALLEL AND DISTRIBUTED PROCESSING, ORLANDO, FLORIDA, USA, MARCH 30 - APRIL 3, 1998, PROCEEDINGS

Springer Science & Business Media This book constitutes the refereed proceedings of 10 international workshops held in conjunction with the merged 1998 IPPS/SPDP symposia, held in Orlando, Florida, US in March/April 1998. The volume comprises 118 revised full papers presenting cutting-edge research or work in progress. In accordance with the workshops covered, the papers are organized in topical sections on

reconfigurable architectures, run-time systems for parallel programming, biologically inspired solutions to parallel processing problems, randomized parallel computing, solving combinatorial optimization problems in parallel, PC based networks of workstations, fault-tolerant parallel and distributed systems, formal methods for parallel programming, embedded HPC systems and applications, and parallel and distributed real-time systems.

MODELING AND SIMULATION

AN APPLICATION-ORIENTED INTRODUCTION

Springer Science & Business Media Die Autoren führen auf anschauliche und systematische Weise in die mathematische und informatische Modellierung sowie in die Simulation als universelle Methodik ein. Es geht um Klassen von Modellen und um die Vielfalt an Beschreibungsarten. Aber es geht immer auch darum, wie aus Modellen konkrete Simulationsergebnisse gewonnen werden können. Nach einem kompakten Repetitorium zum benötigten mathematischen Apparat wird das Konzept anhand von Szenarien u. a. aus den Bereichen „Spielen – entscheiden – planen" und „Physik im Rechner" umgesetzt.

MODELING AND SIMULATION OF COMPLEX SYSTEMS

A FRAMEWORK FOR EFFICIENT AGENT-BASED MODELING AND SIMULATION

Springer Robert Siegfried presents a framework for efficient agent-based modeling and simulation of complex systems. He compares different approaches for describing structure and dynamics of agent-based models in detail. Based on this evaluation the author introduces the "General Reference Model for Agent-based Modeling and Simulation" (GRAMS). Furthermore he presents parallel and distributed simulation approaches for execution of agent-based models –from small scale to very large scale. The author shows how agent-based models may be executed by different simulation engines that utilize underlying hardware resources in an optimized fashion.

CONSTRUCTION OF A CONCEPT OF NEURONAL MODELING

Springer Nature The business problem of having inefficient processes, imprecise process analyses and simulations as well as non-transparent artificial neuronal network models can be overcome by an easy-to-use modeling concept. With the aim of developing a flexible and efficient approach to modeling, simulating and optimizing processes, this paper proposes a flexible Concept of Neuronal Modeling (CoNM). The modeling concept, which is described by the modeling language designed and its mathematical formulation and is connected to a technical substantiation, is based on a collection of novel sub-artifacts. As these have been

implemented as a computational model, the set of CoNM tools carries out novel kinds of Neuronal Process Modeling (NPM), Neuronal Process Simulations (NPS) and Neuronal Process Optimizations (NPO). The efficacy of the designed artifacts was demonstrated rigorously by means of six experiments and a simulator of real industrial production processes. About the author Dr.-Ing. Marcus Grum conducts research on neural networks and knowledge processing. The explainable and ethically justifiable integration of artificial intelligence into economic contexts is a major challenge and the subject of his research. He has worked on numerous research and customer projects in the areas of knowledge management, business process management, and artificial intelligence. He graduated from the studies of computer science as well as economics at the University of Potsdam, the Technical University of Berlin and the Humboldt University of Berlin.

SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT

Allied Publishers This Book aims at strengthening the scientific basis for sustainable development. Scientists are improving their understanding about Nature. Technologists are harnessing the potential and resources for economic growth. Scientists, through increased research, can provide efficient techniques for supporting the prudent management of the environment. The uses of remote sensing techniques, efficient materials, application of polymer technology, alternative energy forms, etc., are other topics of discussions included in the book.

HARRY MARKOWITZ

SELECTED WORKS

World Scientific Harry M Markowitz received the Nobel Prize in Economics in 1990 for his pioneering work in portfolio theory. He also received the von Neumann Prize from the Institute of Management Science and the Operations Research Institute of America in 1989 for his work in portfolio theory, sparse matrices and the SIMSCRIPT computer language. While Dr Markowitz is well-known for his work on portfolio theory, his work on sparse matrices remains an essential part of linear optimization calculations. In addition, he designed and developed SIMSCRIPT OCo a computer programming language. SIMSCRIPT has been widely used for simulations of systems such as air transportation and communication networks."

MANAGEMENT RESEARCH METHODOLOGY

INTEGRATION OF PRINCIPLES, METHODS AND TECHNIQUES

Pearson Education India The subject of management research methodology is enthralling and complex. A student or a practitioner of management

research is beguiled by uncertainties in the search and identification of the research problem, intrigued by the ramifications of research design, and confounded by obstacles in obtaining accurate data and complexities of data analysis. Management Research Methodology: Integration of Principles, Methods and Techniques seeks a balanced treatment of all these aspects and blends problem-solving techniques, creativity aspects, mathematical modelling and qualitative approaches in order to present the subject of Management Research Methodology in a lucid and easily understandable way.

MODELING AND SIMULATING SOFTWARE ARCHITECTURES

THE PALLADIO APPROACH

MIT Press A new, quantitative architecture simulation approach to software design that circumvents costly testing cycles by modeling quality of service in early design states. Too often, software designers lack an understanding of the effect of design decisions on such quality attributes as performance and reliability. This necessitates costly trial-and-error testing cycles, delaying or complicating rollout. This book presents a new, quantitative architecture simulation approach to software design, which allows software engineers to model quality of service in early design stages. It presents the first simulator for software architectures, Palladio, and shows students and professionals how to model reusable, parametrized components and configured, deployed systems in order to analyze service attributes. The text details the key concepts of Palladio's domain-specific modeling language for software architecture quality and presents the corresponding development stage. It describes how quality information can be used to calibrate architecture models from which detailed simulation models are automatically derived for quality predictions. Readers will learn how to approach systematically questions about scalability, hardware resources, and efficiency. The text features a running example to illustrate tasks and methods as well as three case studies from industry. Each chapter ends with exercises, suggestions for further reading, and "takeaways" that summarize the key points of the chapter. The simulator can be downloaded from a companion website, which offers additional material. The book can be used in graduate courses on software architecture, quality engineering, or performance engineering. It will also be an essential resource for software architects and software engineers and for practitioners who want to apply Palladio in industrial settings.

COMPUTER SIMULATIONS IN SCIENCE AND ENGINEERING

CONCEPTS - PRACTICES - PERSPECTIVES

Springer This book addresses key conceptual issues relating to the modern scientific and engineering use of computer simulations. It analyses a broad set of questions, from the nature of computer simulations to their

epistemological power, including the many scientific, social and ethics implications of using computer simulations. The book is written in an easily accessible narrative, one that weaves together philosophical questions and scientific technicalities. It will thus appeal equally to all academic scientists, engineers, and researchers in industry interested in questions (and conceivable answers) related to the general practice of computer simulations.

INTELLIGENCE IN COMMUNICATION SYSTEMS

IFIP INTERNATIONAL CONFERENCE, INTELLCOMM 2004, BANGKOK, THAILAND, NOVEMBER 23-26, 2004, PROCEEDINGS

Springer The 2004 IFIP International Conference on Intelligence in Communication S-
tems(INTELLCOMM2004),heldinBangkok,Thailand,23–26November2004, was the successor and an expansion of SMARTNET, a series of annual conf-ences on intelligence in networks held during 1995–2003 under the auspices of IFIP TC6's Working Group 6. 7. The Internet and Web provide more connection facilities, hence the man-man, man-machine and machine-machine interactions will increase and communication will have an important role in modern s- tems.
Inordertoobtaine?ectiveande?cientcommunication,artistic,socialand technical issues have to be tackled in a holistic and integrated manner. However,
communicationtechniques,conceptsandsolutionswhichhavebeendevelopedso far treat these issues separately, so that there arises a need for communication researchers and practitioners in di?erent ?elds (engineering, science and arts) to meet, share their experience and explore all possibilities of developing in- grated and advanced solutions which incorporate ideas from such disciplines as communication arts, art design, linguistics, Web technologies, computer system architecture and protocols, computer science and arti?cial intelligence. INTELLCOMM 2004 was jointly sponsored by IFIP WG 6. 7: Smart N- works and WG 6. 4: Internet Applications Engineering and aimed to provide an international forum which brings academia, researchers, practitioners and s- vice providers together. The discussion areas covered the latest research topics andadvancedtechnologicalsolutionsintheareaofintelligenceincommunication systems, ranging from architectures for adaptable networks/services and Sem-
ticWeb/Webservicestechnologiestointelligentserviceapplicationinterfacean d intelligent human interaction. INTELLCOMM 2004 received 112 paper submissions from 28 countries. From these, 24 were accepted, and are included in this proceedings. There were also 3 papers accepted for poster presentation, published separately.

PROBABILITY AND STATISTICS FOR COMPUTER SCIENCE

John Wiley & Sons Comprehensive and thorough development of both probability andstatistics for serious computer scientists; goal-oriented: "topresent the mathematical analysis underlying probabilityresults" Special emphases on simulation and discrete decision theory Mathematically-rich, but self-contained text, at a gentlepace Review of calculus and linear algebra in an appendix Mathematical interludes (in each chapter) which examinemathematical techniques in the context of probabilistic orstatistical importance Numerous section exercises, summaries, historical notes, andFurther Readings for reinforcement of content

PERSPECTIVES FROM EUROPE AND ASIA ON ENGINEERING DESIGN AND MANUFACTURE

A COMPARISON OF ENGINEERING DESIGN AND MANUFACTURE IN EUROPE AND ASIA

Springer Science & Business Media This book will be the first proceedings of a series of symposia on the exchange of best practices and research in engineering design and manufacture organized focusing on Europe and Asia by a group of researchers from European and Asian Universities working on several EU funded projects. This very first book will explore the difference and communalities of European and Asian research and practice in this very important field. With the rapid economic expansion of Asia and the gradual shift of manufacturing from Europe and the USA to Asia, this Symposium will provide a timely forum for leading researchers in the field to exchange their research findings and experience. The book covers this first symposium, and aims to give insights to these on-going changes, shows their implications from design and manufacture perspective for both Europe and Asia and identifies new research topics to improve industrial practice. The primary audience of this book are researchers in the field of engineering design and manufacture, industrialists and business persons who are interested in finding out the state of design and manufacture in Asia and Europe.

GRID AND COOPERATIVE COMPUTING - GCC 2004

THIRD INTERNATIONAL CONFERENCE, WUHAN, CHINA, OCTOBER 21-24, 2004. PROCEEDINGS

Springer Science & Business Media This book constitutes the joint refereed proceedings of five international workshops held in association with the Third International Conference on Grid and Cooperative Computing, GCC 2004, in Wuhan, China in October 2004. The 95 revised workshop papers presented were carefully reviewed and selected from a total of 154 submissions. In accordance with the workshop titles, the papers are

organized in topical sections on the information grid and knowledge grid; storage grid and technologies; information security and survivability for the grid; agents, autonomic computing, and grid enabled virtual organization; and visualization and visual steering.

DISCRETE EVENT SIMULATION USING EXTENDSIM 8

Lulu.com This text presents the basic concepts of discrete event simulation using ExtendSim 8. The book can be used as either a desk reference or as a textbook for a course in discrete event simulation. This book is intended to be a blend of theory and application, presenting just enough theory to understand how to build a model, design a simulation experiment, and analyze the results. Most of the text is devoted to building models with ExtendSim 8, starting with a simple single-server queue and culminating with a transportation depot for package transfer and delivery. I have built all the models contained in this book with ExtendSim 8 LT, which limits the number of modeling blocks, but otherwise has the required ExtendSim 8 capabilities. ExtendSim 8 LT is not included in this book. Students may obtain ExtendSim 8 LT from Imagine That, Inc. at www.extendsim.com/store/cart.php?target=category&category_id=3. ExtendSim 8 is a trademark of Imagine That, Inc.

MULTIKRITERIELLES CONTROLLING VON GESCHÄFTSPROZESSEN

PROZESSVERBESSERUNG MIT HILFE DER DYNAMISCHEN SIMULATION

BoD – Books on Demand

PROCEEDINGS OF THE ... WINTER SIMULATION CONFERENCE

LEARNING CAUSAL MODELS OF MULTIVARIATE SYSTEMS AND THE VALUE OF IT FOR THE PERFORMANCE MODELING OF COMPUTER PROGRAMS

ASP / VUBPRESS / UPA

COMPILING ESTEREL

Springer Science & Business Media Designed as the definitive reference on the compilation of the Esterel synchronous reactive real-time language, Compiling Esterel covers all aspects of the language. The book includes a tutorial, a reference manual, formal semantics, and detailed technical information about the many techniques used to compile it. Researchers as well as advanced developers will find this book essential for understanding Esterel at all levels.

DISCRETE-EVENT SYSTEM SIMULATION

Pearson College Division Offers comprehensive coverage of discrete-event simulation, emphasizing and describing the procedures used in operations

research - methodology, generation and testing of random numbers, collection and analysis of input data, verification of simulation models and analysis of output data.

DEVELOPMENTS IN APPLIED ARTIFICIAL INTELLIGENCE

16TH INTERNATIONAL CONFERENCE ON INDUSTRIAL AND ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS, IEA/AIE 2003, LAUGHBOROUGH, UK, JUNE 23-26, 2003, PROCEEDINGS

Springer Science & Business Media This book constitutes the refereed proceedings of the 16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, IEA/AIE 2003, held in Loughborough, UK in June 2003. The 81 revised full papers presented were carefully reviewed and selected from more than 140 submissions. Among the topics addressed are soft computing, fuzzy logic, diagnosis, knowledge representation, knowledge management, automated reasoning, machine learning, planning and scheduling, evolutionary computation, computer vision, agent systems, algorithmic learning, tutoring systems, financial analysis, etc.

A REFERENCE STRUCTURE FOR MODULAR METAMODELS OF QUALITY-DESCRIBING DOMAIN-SPECIFIC MODELING LANGUAGES

KIT Scientific Publishing

EIN KONZEPT ZUR SIMULATION WISSENSINTENSIVER AKTIVITÄTEN IN GESCHÄFTSPROZESSEN

GITO mbH Verlag

AMERICAN BOOK PUBLISHING RECORD CUMULATIVE 2000

R. R. Bowker

MEMORANDUM

BIBLIOGRAPHIC GUIDE TO EDUCATION

PROCEEDINGS

AN INTRODUCTION TO SIMULATION USING GPSS/H

John Wiley & Sons Incorporated Employs the same painstaking thoroughness and accuracy in introducing the GPSS language that made the 1974 book so popular. Includes an educational version, GPSS/H from Wolverine Software, for personal computers that is as powerful, except in file size, as the package that costs commercial users over –5,000. Available in two versions: one with 5 1/4' disks, and one with 3 1/2' disks.

PRACTICAL PROCESS SIMULATION USING OBJECT-ORIENTED TECHNIQUES AND C++

Artech House Publishers Intended to help novices and seasoned pros better understand the construction and use of the process interaction approach to discrete-event simulation using object-oriented modeling and programming, this book details both the fundamentals and implementation aspects of simulation modeling using C++. Analysts, software engineers, and programmers faced with the challenge of developing medium to large complex systems will put this book to work in helping them more efficiently design and test systems and alternative concepts.

ENVIRONMENTAL STATISTICS AND DATA ANALYSIS

Routledge This easy-to-understand introduction emphasizes the areas of probability theory and statistics that are important in environmental monitoring, data analysis, research, environmental field surveys, and environmental decision making. It communicates basic statistical theory with very little abstract mathematical notation, but without omitting importa

FORTHCOMING BOOKS

MODELING AND SIMULATION ON MICROCOMPUTERS

A BAYESIAN ACCOUNT OF UNCERTAINTY FOR DISCRETE-EVENT DYNAMIC SIMULATION: SELECTION OF INPUT DISTRIBUTIONS

INTERFACES

Seeks to improve communication between managers and professionals in OR/MS.

1989 WINTER SIMULATION CONFERENCE

PROCEEDINGS

Society for Computer Simulation