

DISCRETE-EVENT SYSTEM SIMULATION

FOURTH EDITION



JERRY BANKS · JOHN S. CARSON II
BARRY L. NELSON · DAVID M. NICOL

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Discrete Event System Simulation Jerry Banks

Hai Jin

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Discrete-event System Simulation Jerry Banks,John S. Carson,1984 **Discrete-Event System Simulation** Jerry Banks,John S. Carson,Barry L. Nelson,David M. Nicol,2013-08-29 For junior and senior level simulation courses in engineering business or computer 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 The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed Discrete Event System Simulation Banks,2007

Discrete-event System Simulation Jerry Banks,John S. Carson,Barry L. Nelson,1996 **Discrete-event System Simulation** Jerry Banks,2010 For junior and senior level simulation courses in engineering business or computer science Discrete Event System Simulation examines the principles of modeling and analysis that translate to all software tools rather than a particular software tool 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 including simulation source code for download additional exercises and solutions web links and errata at the associated website <http://dmnicol.web.engr.illinois.edu/bcnn/index.html> **Discrete Event System Simulation 4e** Jerry Banks,2005 **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

Ethernet-basierte Fahrzeugnetzwerkarchitekturen für zukünftige Echtzeitsysteme im Automobil Till

Steinbach,2018-09-11 Till Steinbach leistet einen Beitrag zum Design und zur Bewertung neuer Ethernet basierter Fahrzeugnetzwerkarchitekturen Er liefert Werkzeuge f r die simulationsbasierte Analyse und Beurteilung von Netzwerkarchitekturen und evaluiert anhand konkreter Anwendungen und auf echten Verkehrsdaten aufbauender Szenarien m gliche Netzwerkdesigns und Konfigurationen Dabei ber cksichtigt der Autor auch den bergang von Legacy Technologien hin zu einem rein Echtzeit Ethernet basierten Fahrzeugnetzwerk Auf Basis der aus analytischen Modellen sowie Simulationsstudien und einem realen Fahrzeugprototyp gewonnenen Erkenntnisse spricht er Designempfehlungen f r die Entwicklung zuk nftiger Ethernet basierter Fahrzeugnetzwerke aus Die Ergebnisse der Untersuchung f hren zu Best Practices f r zuk nftige Backbone Netzwerke im Automobil in denen sich die erreichbaren Kennzahlen unter Einhaltung der Designempfehlungen um ein Vielfaches verbessern lassen Preise Die Dissertation von Till Steinbach wurde 2018 von der IAV GmbH Ingenieurgesellschaft Auto und Verkehr Berlin mit dem in der Branche renommierten IAV Talent Award in der Kategorie Excellence ausgezeichnet Der Autor Till Steinbach ist Teamleiter f r Software Integration und Echtzeitsysteme bei einem mittelst ndischen Automobilzulieferer in Hamburg Zuvor war er Doktorand in einer Kooperation der Carl von Ossietzky Universit t Oldenburg und der HAW Hamburg 2011 wurde er mit dem Hermann Appel Preis ausgezeichnet

Modeling and Tools for Network Simulation Klaus Wehrle,Mesut Gunes,James Gross,2010-09-22 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 **Güterwagenmanagement** Alexander Weyers,2019-03-15 Das Transportvolumen im Güterverkehr hat sich in den vergangenen 30 Jahren annähernd verdreifacht Für diesen Anstieg sind unter anderem der Wegfall der europäischen Grenzen und die fortschreitende Arbeitsteilung verantwortlich Auch in Zukunft wird das Transportvolumen weiter wachsen Bis 2030 wird erneut ein Wachstum von 50 % erwartet Dieses Wachstum betrifft alle Verkehrsträger Aufgrund der angestiegenen Transportdistanzen sowie der kologischen Vorteile nimmt auch die Bedeutung des Schienengüterverkehrs stark zu Damit der Schienengüterverkehr diese Herausforderungen meistern kann müssen die Prozesse effizient und effektiv gestaltet werden Die Dissertation von Alexander Weyers untersucht die wesentlichen Einflussfaktoren des Schienengüterverkehrs Als Einflussfaktoren werden die Flottengröße die Anzahl verschiedenartiger Güterwagen die Nachfrage nach Güterwagen die Lagerung von Güterwagen sowie die Servicezeit von Güterwagen untersucht Für jeden Einflussfaktor werden die Auswirkungen auf die wesentlichen Kennzahlen des Güterwagenmanagements berechnet Diese Berechnungen erfolgen anhand von Simulationsstudien die den europäischen Schienengüterverkehr mit unterschiedlichen Parameterkonstellationen nachbilden Das Buch wendet sich an Dozenten und Studenten der Betriebswirtschaftslehre mit den Schwerpunkten Logistik und Verkehr sowie an interessierte Führungskräfte die sich mit dem Thema Flottenplanung auseinandersetzen

Parallel and Distributed Processing Jose Rolim,1998-03-18 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

Konzeption und Realisierung eines neuen Systems zur produktbegleitenden virtuellen Inbetriebnahme komplexer Förderanlagen Lars Kövari,2014-08-24 Die virtuelle Inbetriebnahme ermöglicht die Vorwegnahme der steuerungstechnischen Inbetriebnahme von komplexen Förderanlagen an einem virtuellen Modell In dieser Arbeit wird die Konzeption eines neuen Systems zur produktbegleitenden virtuellen Inbetriebnahme geschildert und dessen Umsetzung in Form eines neuen prototypischen Simulationssystems beschrieben Durch die Umsetzung des entwickelten Konzeptes wurde eine durchgängige virtuelle Inbetriebnahme der betrachteten Förderanlagen erreicht

A Reference Structure for Modular Metamodels of Quality-Describing Domain-Specific Modeling Languages Strittmatter, Misha,2020-07-23 *Grid and Cooperative Computing - GCC 2004* Hai Jin,2004-10-14 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

Project Management PANNEERSELVAM, R.,SENTHILKUMAR,

P.,2009-11-23 Project management plays a vital role in planning organizing and controlling various resources and factors for the successful completion of projects within a time frame This comprehensive text presents the fundamental concepts and principles of project management and provides necessary skills to manage projects effectively It is designed for postgraduate students of management commerce industrial engineering production engineering and construction management The book makes the readers familiar with the objectives of project management and explains project management life cycle demand forecasting methods and phases and steps of technology transfer It discusses cost of capital estimation of project cost and feasibility of projects The text also describes project evaluation and project scheduling techniques as well as discusses project management software and the impact of projects on the environment Besides it gives a detailed description of project audit project organizational structures and roles of various financial institutions in project management Key Features Explains the concepts and techniques of project management with a number of fitting examples Includes several chapter end problems and questions to test students

Lenkpreiskoordination des Leistungsaustauschs multinationaler

Unternehmen bei Währungsrisiko Tobias Kochems,2024-12-28 Eine der wesentlichen Aufgaben des Controllings besteht in der Koordinationsfunktion mittels der eine optimale Ressourcenallokation erreicht werden soll Während zentrale Vorgaben mit einer Demotivation der dezentralen Entscheidungsträger einhergehen kann das autonome Handeln der dezentralen Entscheidungsträger zu einer mangelnden Harmonisierung der Unternehmensziele führen In multinationalen Unternehmen erhält sich die Komplexität zur optimalen Steuerung durch interne und externe Einflüsse wie z.B. Währungsrisiken enorm Aus der Vielzahl der Koordinationsinstrumente steht in dieser Arbeit der Lenkpreisansatz im Vordergrund wobei die Ziele des Lenkpreisansatzes und die Ziele des Währungsmanagements unter Berücksichtigung der Risikoeinstellung der Entscheidungsträger konzeptionell verknüpft werden Das Koordinationskonzept beinhaltet neben der optimalen Steuerung der internationalen Leistungserstellung auch Berlegungen zum nutzenoptimalen Zentralisierungsgrad des Währungsmanagements

Intelligence in Communication Systems Finn Arve Aagesen,Chutiporn Anutariya,Vilas

Wuwongse,2004-11-03 The 2004 IFIP International Conference on Intelligence in Communication Systems INTELLCOMM2004 held in Bangkok Thailand 23-26 November 2004 was the successor and an expansion of SMARTNET a series of annual conferences 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 machine and machine-machine interactions will increase and communication will have an important role in modern systems In order to obtain effective and efficient communication artistic

social and technical issues have to be tackled in a holistic and integrated manner. However communication techniques, concepts and solutions which have been developed so far treat these issues separately so that there arises a need for communication researchers and practitioners in different fields of engineering science and arts to meet, share their experience and explore all possibilities of developing integrated 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 artificial intelligence. INTELLCOMM 2004 was jointly sponsored by IFIP WG 6.7 Smart Networks and WG 6.4 Internet Applications Engineering and aimed to provide an international forum which brings academia, researchers, practitioners and service providers together. The discussion areas covered the latest research topics and advanced technological solutions in the area of intelligence in communication systems ranging from architectures for adaptable networks, services and Semantic Web. Web services, technologies, intelligent service application interface and 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.

Multikriterielles Controlling von Geschäftsprozessen Vasily Belkin, 2011 **Perspectives from Europe and Asia on Engineering Design and Manufacture** Xiu-Tian Yan, Cheng-Yu Jiang, Neal P. Juster, 2004-04-30 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.

Construction of a Concept of Neuronal Modeling Marcus Grum, 2022-02-25 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

Whispering the Techniques of Language: An Emotional Journey through **Discrete Event System Simulation Jerry Banks**

In a digitally-driven world wherever monitors reign supreme and quick connection drowns out the subtleties of language, the profound secrets and emotional subtleties concealed within phrases usually get unheard. However, nestled within the pages of **Discrete Event System Simulation Jerry Banks** a captivating fictional value blinking with natural emotions, lies an extraordinary quest waiting to be undertaken. Published by a skilled wordsmith, that enchanting opus invites readers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within ab muscles material of each and every word. Within the emotional depths with this emotional review, we can embark upon a honest exploration of the book is core styles, dissect its charming writing fashion, and fail to the effective resonance it evokes serious within the recesses of readers hearts.

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