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Simulation with Visual SLAM and AweSim A. Alan B. Pritsker 1999-03-19 This book presents a process for problem resolution, policy crafting, and decision making based on the use of modeling and simulation. Detailed descriptions of the methods by which Visual SLAM and AweSim, version 3, support this process are presented. The text is organized into four parts: Introduction to Simulation, Visual SLAM Network Modeling and AweSim, Simulation Analysis, and Visual SLAM Discrete, Continuous and Combined Modeling.

Marine Navigation and Safety of Sea Transportation Adam Weintrit 2013-06-04 The TransNav 2013 Symposium held at the Gdynia Maritime University, Poland in June 2013 has brought together a wide range of participants from all over the world. The program has offered a variety of contributions, allowing to look at many aspects of the navigational safety from various different points of view. Topics presented and discussed at the Symposium were: navigation, safety at sea, sea transportation, education of navigators and simulator-based training, sea traffic engineering, ship's manoeuvrability, integrated systems, electronic charts systems, satellite, radio-navigation and anti-collision systems and many others. This book is part of a series of four volumes and provides an overview of advances in Marine Navigation and is addressed to scientists and professionals involved in research and development of navigation, safety of navigation and sea transportation.

Mining in the New Millennium - Challenges and Opportunities Tad.S. Golosinski 2020-08-18 This text concentrates mainly on the Polish mining industry. It involves mining of a significant quantities of lignite, coal, copper, sulphur and many industrial minerals, which are all discussed in this book.

Database and Expert Systems Applications Fernando Galindo 2004-10-29 DEXA 2004, the 15th International Conference on Database and Expert Systems Applications,

was held August 30 ? September 3, 2004, at the University of Zaragoza, Spain. The quickly growing spectrum of database applications has led to the establisment of more specialized discussion platforms (DaWaK Conference, EC-Web Conference, EGOVConference, Trustbus Conference and DEXA Workshop: Every DEXA event has its own conference proceedings), which were held in parallel with the DEXA Conference also in Zaragoza. In your hands are the results of much effort. The work begins with the preparation of the submitted papers, which then go through the reviewing process. The accepted papers are revised to final versions by their authors and are then arranged within the conference program. All culminates in the conference itself. For this conference 304 papers were submitted, and I want to thank to all who contributed to it; they are the real base of the conference. The program committee and the supporting reviewers produced altogether 942 referee reports, in average 3,1 reports per paper, and selected 92 papers for presentation. At this point we would like to say many thanks to all the institutions that actively supported this conference and made it possible. These were: • University of Zaragoza • FAW • DEXA Association • Austrian Computer Society

Database and Expert Systems Applications Kim V. Andersen 2005-09-14 DEXA 2005, the 16th International Conference on Database and Expert Systems Applications, was held at the Copenhagen Business School, Copenhagen, Denmark, from August 22 to 26, 2005. The success of the DEXA series has partly been due to the way in which it has kept abreast of recent developments by spawning specialized workshops and conferences each with its own proceedings. In 2005 the DEXA programme was co-located with the 7th International Conference on Data Warehousing and Knowledge Discovery [DaWaK 2005], the 6th International Conference on Electronic Commerce and Web Technologies [EC-Web 2005], the 4th International Conference on Electronic Government [EGOV 2005], the 2nd International Conference on Trust, Privacy, and Security in Digital Business [TrustBus 2005], the 2nd International Conference on Industrial Applications of Holonic and Multi-agent Systems [HoloMAS 2005], as well as 19 specialized workshops. These proceedings are the result of a considerable amount of hard work. Beginning with the preparation of submitted papers, the papers went through the reviewing process. This process was supported by online discussion between the reviewers to determine the final conference program. The authors of accepted papers revised their manuscripts to produce this fine collection. DEXA 2005 received 390 submissions, and from those the Program Committee selected the 92 papers in these proceedings. This year the reviewing process generated more than 1000 referee reports. The hard work of the authors, the referees and the Program Committee is gratefully acknowledged.

An Enduring Quest Ferd Leimkuhler 2019-07-15 The process of industrialization that began over two hundred years ago is continuing to change the way people work and live, and doing it very rapidly, in places like China and India. At the forefront of this movement is the profession of industrial engineering that develops and applies the technology that drives industrialization. This book describes how industrial engineering evolved over the past two centuries developing methods and principles for the planning, design, and control of

production and service systems. The story focuses on the growth of the discipline at Purdue University where it helped shape the university itself and made substantial contributions to the industrialization of America and the world. The story includes colorful and creative people like Frank and Lillian Gilbreth of Cheaper by the Dozen fame. Lillian was the first lady of American engineering as well a founder of Purdue's Industrial Engineering.

IAENG Transactions on Engineering Sciences Sio-Iong Ao 2014-04-07 Two large international conferences on Advances in Engineering Sciences were held in Hong Kong, March 13-15, 2013, under the International MultiConference of Engineers and Computer Scientists (IMECS 2013), and in London, U.K., 3-5 July, 2013, under the World Congress on Engineering 2013 (WCE 2013) respectively. IMECS 2013 and WCE 2013 were organize

Simulation Modeling and Analysis Averill M. Law 2000 This senior/graduate-level text is the classic text in its field and established itself as the authoritative source on the theory & practice of simulation over 15 years ago. It is used in most of the better schools of engineering and in some business programs as well.

Computer Simulation Using Excel without Programming Evon M. O. Abu-Taieh 2008-01-08 Defining Simulation in its broadest aspect as embodying a certain model to represent the behavior of a system, whether that may be an economic or an engineering one, with which conducting experiments is attainable. Such a technique enables the management

Building Software for Simulation James J. Nutaro 2011-03-23 Fundamentals of Turbulent and Multiphase Combustion Detailed coverage of advanced combustion topics from the author of Principles of combustion, Second Edition Turbulence, turbulent combustion, and multiphase reacting flows have become major research topics in recent decades due to their application across diverse fields, including energy, environment, propulsion, transportation, industrial safety, and nanotechnology. Most of the knowledge accumulated from this research has never been published in book form—until now. Fundamentals of Turbulent and Multiphase Combustion presents up-to-date, integrated coverage of the fundamentals of turbulence, combustion, and multiphase phenomena along with useful experimental techniques, including non-intrusive, laser-based measurement techniques, providing a firm background in both contemporary and classical approaches. Beginning with two full chapters on laminar premixed and non-premixed flames, this book takes a multiphase approach, beginning with more common topics and moving on to higher-level applications. In addition, Fundamentals of Turbulent and Multiphase Combustion: Addresses seven basic topical areas in combustion and multiphase flows, including laminar premixed and non-premixed flames, theory of turbulence, turbulent premixed and non-premixed flames, and multiphase flows Covers spray atomization and combustion, solid-propellant combustion, homogeneous propellants, nitramines, reacting boundary-layer flows, single energetic particle combustion, and granular bed combustion Provides experimental setups and results whenever appropriate

Supported with a large number of examples and problems as well as a solutions manual, Fundamentals of Turbulent and Multiphase Combustion is an important resource for professional engineers and researchers as well as graduate students in mechanical, chemical, and aerospace engineering.

Proceedings of the ... Winter Simulation Conference 1997

Process Modelling Bernd Scholz-Reiter 2012-12-06 A process model is very often used for system analysis, design and management in various application areas. Using a process model has the advantage that it has only to be as precise as necessary within the parameters of the individual field of application, whereas the precision externally is less important. This makes process modeling easier and open for structuring. The contributions deal with different approaches to process modelling, especially in the areas of business process modelling, logistics and production processes and water systems.

Handbook of Research on Discrete Event Simulation Environments: Technologies and Applications Abu-Taieh, Evon M. O. 2009-10-31 "This book provides a comprehensive overview of theory and practice in simulation systems focusing on major breakthroughs within the technological arena, with particular concentration on the accelerating principles, concepts and applications"-- Provided by publisher.

Introduction to Discrete Event Systems Christos G. Cassandras 2021-11-11 This unique textbook comprehensively introduces the field of discrete event systems, offering a breadth of coverage that makes the material accessible to readers of varied backgrounds. The book emphasizes a unified modeling framework that transcends specific application areas, linking the following topics in a coherent manner: language and automata theory, supervisory control, Petri net theory, Markov chains and queueing theory, discrete-event simulation, and concurrent estimation techniques. Topics and features: detailed treatment of automata and language theory in the context of discrete event systems, including application to state estimation and diagnosis comprehensive coverage of centralized and decentralized supervisory control of partially-observed systems timed models, including timed automata and hybrid automata stochastic models for discrete event systems and controlled Markov chains discrete event simulation an introduction to stochastic hybrid systems sensitivity analysis and optimization of discrete event and hybrid systems new in the third edition: opacity properties, enhanced coverage of supervisory control, overview of latest software tools This proven textbook is essential to advanced-level students and researchers in a variety of disciplines where the study of discrete event systems is relevant: control, communications, computer engineering, computer science, manufacturing engineering, transportation networks, operations research, and industrial engineering. Christos G. Cassandras is Distinguished Professor of Engineering, Professor of Systems Engineering, and Professor of Electrical and Computer Engineering at Boston University. Stéphane Lafortune is Professor of Electrical Engineering and Computer Science at the University of Michigan, Ann Arbor.

Managerial Decision Modeling Nagraj (Raju) Balakrishnan 2017-08-07 This book fills a void for a balanced approach to spreadsheet-based decision modeling. In addition to using spreadsheets as a tool to quickly set up and solve decision models, the authors show how and why the methods work and combine the user's power to logically model and analyze diverse decision-making scenarios with software-based solutions. The book discusses the fundamental concepts, assumptions and limitations behind each decision modeling technique, shows how each decision model works, and illustrates the real-world usefulness of each technique with many applications from both profit and nonprofit organizations. The authors provide an introduction to managerial decision modeling, linear programming models, modeling applications and sensitivity analysis, transportation, assignment and network models, integer, goal, and nonlinear programming models, project management, decision theory, queuing models, simulation modeling, forecasting models and inventory control models. The additional material files Chapter 12 Excel files for each chapter Excel modules for Windows Excel modules for Mac 4th edition errata can be found at https://www.degruyter.com/view/product/486941

Interactive Operations Research with Maple Mahmut Parlar 2012-12-06 Interactive Operations Research with Maple: Methods and Models has two ob jectives: to provide an accelerated introduction to the computer algebra system Maple and, more importantly, to demonstrate Maple's usefulness in modeling and solving a wide range of operations research (OR) problems. This book is written in a format that makes it suitable for a one-semester course in operations research, management science, or quantitative methods. A nwnber of students in the departments of operations research, management science, oper ations management, industrial and systems engineering, applied mathematics and advanced MBA students who are specializing in quantitative methods or opera tions management will find this text useful. Experienced researchers and practi tioners of operations research who wish to acquire a quick overview of how Maple can be useful in solving OR problems will find this an excellent reference. Maple's mathematical knowledge base now includes calculus, linear algebra, ordinary and partial differential equations, nwnber theory, logic, graph theory, combinatorics, statistics and transform methods. Although Maple's main strength lies in its ability to perform symbolic manipulations, it also has a substantial knowledge of a large nwnber of nwnerical methods and can plot many different types of attractive-looking two-dimensional and three-dimensional graphs. After almost two decades of continuous improvement of its mathematical capabilities, Maple can now boast a user base of more than 300,000 academics, researchers and students in different areas of mathematics, science and engineering.

Microelectrofluidic Systems Tianhao Zhang 2018-10-08 Composite systems that integrate microelectromechanical and microelectrofluidic (MEF) components with electronics are emerging as the next generation of system-on-a-chip (SOC) designs. However, there remains a pressing need for a structured methodology for MEFS design automation, including modeling techniques and simulation and optimization tools. Integrating top-down and bottom-up design philosophies,

Microelectrofluidic Systems presents the first comprehensive design strategy for MEFS. This strategy supports hierarchical modeling and simulation from the component level to the system level. It leads to multi-objective optimization tools valuable in all phases of the design process, from conceptualization to final manufacturing. The authors begin by defining the basic variables and elements needed to describe MEFS behavior, then model that behavior across three layers of abstraction: the low-level component, high-level reconfigurable architecture, and bio/chemical application layers. They have developed a hierarchical integrated design environment with SystemC and present its architecture and associated functional packages. Microelectrofluidic Systems is visionary in its leverage of electronic design principles for microsystem design and heralds a new era of automated SOC design. The strategy it presents holds the potential for significant reductions in design time and life-cycle maintenance costs, and its techniques and tools for robust design and application flexibility can lead to the high-volume production needed for the inevitably growing product market.

Innovating the Future Through Manufacturing Vivekanandu Shanmuganathan 2005 Attempts to provide a holistic view of the changing scenario and current research trends in manufacturing. This volume can provide the necessary information to all researchers, professionals and beginners alike in introducing innovating manufacturing practices and furthering research on newer and improved manufacturing technologies.

Stochastic Discrete Event Systems Armin Zimmermann 2008-01-12 Stochastic discrete-event systems (SDES) capture the randomness in choices due to activity delays and the probabilities of decisions. This book delivers a comprehensive overview on modeling with a quantitative evaluation of SDES. It presents an abstract model class for SDES as a pivotal unifying result and details important model classes. The book also includes nontrivial examples to explain real-world applications of SDES.

Discrete and Continuous Simulation Susmita Bandyopadhyay 2014-06-25 When it comes to discovering glitches inherent in complex systems—be it a railway or banking, chemical production, medical, manufacturing, or inventory control system—developing a simulation of a system can identify problems with less time, effort, and disruption than it would take to employ the original. Advantageous to both academic and industrial practitioners, Discrete and Continuous Simulation: Theory and Practice offers a detailed view of simulation that is useful in several fields of study. This text concentrates on the simulation of complex systems, covering the basics in detail and exploring the diverse aspects, including continuous event simulation and optimization with simulation. It explores the connections between discrete and continuous simulation, and applies a specific focus to simulation in the supply chain and manufacturing field. It discusses the Monte Carlo simulation, which is the basic and traditional form of simulation. It addresses future trends and technologies for simulation, with particular emphasis given to .NET technologies and cloud computing, and proposes various simulation optimization

algorithms from existing literature. Includes chapters on input modeling and hybrid simulation Introduces general probability theory Contains a chapter on Microsoft® ExcelTM and MATLAB®/Simulink® Discusses various probability distributions required for simulation Describes essential random number generators Discrete and Continuous Simulation: Theory and Practice defines the simulation of complex systems. This text benefits academic researchers in industrial/manufacturing/systems engineering, computer sciences, operations research, and researchers in transportation, operations management, healthcare systems, and human–machine systems.

1999 International Conference on Web-Based Modeling and Simulation Agostino G. Bruzzone 1999

Asia Pacific Business Process Management Joonsoo Bae 2015-06-15 This book constitutes the proceedings of the Third Asia Pacific Conference on Business Process Management held in Busan, South Korea, in June 2015. Overall, 37 contributions from ten countries were submitted. After each submission was reviewed by at least three Program Committee members, 12 full and two short papers were accepted for publication in this volume. These papers cover various topics and are categorized under four main research focuses in BPM: advancement in workflow technologies, resources allocation strategies, process mining, and emerging topics in BPM.

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

Hypothesis-Driven Simulation Studies Fabian Lorig 2019-08-16 Fabian Lorig develops a procedure model for hypothesis-driven simulation studies which supports the design, conducting, and analysis of simulation experiments. It is aimed at facilitating the execution of simulation studies with regard to the replicability and reproducibility of the results. In comparison to existing models, this approach is based on a formally specified hypothesis. Each step of the simulation study can be adapted to the central hypothesis and performed in

such a way that it can optimally contribute to the verification and thus to the confirmation or rejection of the hypothesis.

Information Control Problems in Manufacturing 2006 Alexandre Dolgui 2011-10-10 Information Control Problems in Manufacturing 2006 contains the Proceedings of the 12th IFAC Symposium on Information Control Problems in Manufacturing (INCOM'2006). This symposium took place in Saint Etienne, France, on May 17-19 2006. INCOM is a tri-annual event of symposia series organized by IFAC and it is promoted by the IFAC Technical Committee on Manufacturing Plant Control. The purpose of the symposium INCOM'2006 was to offer a forum to present the state-of-the-art in international research and development work, with special emphasis on the applications of optimisation methods, automation and IT technologies in the control of manufacturing plants and the entire supply chain within the enterprise. The symposium stressed the scientific challenges and issues, covering the whole product and processes life cycle, from the design through the manufacturing and maintenance, to the distribution and service. INCOM'2006 Technical Program also included a special event on Innovative Engineering Techniques in Healthcare Delivery. The application of engineering and IT methods in medicine is a rapidly growing field with many opportunities for innovation. The Proceedings are composed of 3 volumes: Volume 1 - Information Systems, Control & Interoperability Volume 2 - Industrial Engineering Volume 3 - Operational Research * 3-volume set, containing 362 carefully reviewed and selected papers * presenting the state-of-the-art in international research and development in Information Control problems in Manufacturing

Handbook of Healthcare Delivery Systems Yuehwern Yih 2016-04-19 With rapidly rising healthcare costs directly impacting the economy and quality of life, resolving improvement challenges in areas such as safety, effectiveness, patient-centeredness, timeliness, efficiency, and equity has become paramount. Using a system engineering perspective, Handbook of Healthcare Delivery Systems offers theoretical foundations, methodologies, and case studies in each main sector of the system. It explores how system engineering methodologies and their applications in designing, evaluating, and optimizing the operations of the healthcare system could improve patient outcomes and cost effectiveness. The book presents an overview of current challenges in the healthcare system and the potential impact of system engineering. It describes an integrated framework for the delivery system and the tools and methodologies used for performance assessment and process improvement with examples of lean concept, evidence-based practice and risk assessment. The book then reviews system engineering methodologies and technologies and their applications in healthcare. Moving on to coverage of the design, planning, control and management of healthcare systems, the book contains chapters on 12 services sectors: preventive care, telemedicine, transplant, pharmacy, ED/ICU, OR, decontamination, laboratory, emergency response, mental health, food and supplies, and information technology. It presents the state-of-the-art operations and examines the challenges in each service unit. While system engineering concepts have been broadly applied in healthcare systems, most

improvements have focused on a specific segment or unit of the delivery system. Each unit has strong interactions with others and any significant improvement is more likely to be sustained over time by integrating the process and re-evaluating the system design from a holistic viewpoint. By providing an overview of individual operational sectors in the extremely complex healthcare system and introducing a wide array of engineering methods and tools, this handbook establishes the foundation to facilitate integrated system thinking to redesign the next generation healthcare system.

APCOM'99, Computer Applications in the Mineral Industries APCOM 1999

ENTERprise Information Systems, Part I Joao Eduardo Quintela Varajao 2010-10-08 This book constitutes the proceedings of the International Conference on ENTERprise information systems, held Viana do Castelo, Portugal, in October 2010.

Discrete-Event Simulation George S. Fishman 2013-03-09 "This is an excellent and well-written text on discrete event simulation with a focus on applications in Operations Research. There is substantial attention to programming, output analysis, pseudo-random number generation and modelling and these sections are quite thorough. Methods are provided for generating pseudo-random numbers (including combining such streams) and for generating random numbers from most standard statistical distributions." --ISI Short Book Reviews, 22:2, August 2002

1999 Winter Simulation Conference Proceedings Phillip A. Farrington 1999-08

Mems/Nems Cornelius T. Leondes 2007-10-08 This significant and uniquely comprehensive five-volume reference is a valuable source for research workers, practitioners, computer scientists, students, and technologists. It covers all of the major topics within the subject and offers a comprehensive treatment of MEMS design, fabrication techniques, and manufacturing methods. It also includes current medical applications of MEMS technology and provides applications of MEMS to opto-electronic devices. It is clearly written, self-contained, and accessible, with helpful standard features including an introduction, summary, extensive figures and design examples with comprehensive reference lists.

Interfaces 1999

Facilities Planning James A. Tompkins 2010-01-19 When it comes to facilities planning, engineers turn to this book to explore the most current practices. The new edition continues to guide them through each step in the planning process. The updated material includes more discussions on economics, the supply chain, and ports of entry. It takes a more global perspective while incorporating new case studies to show how the information is applied in the field. Many of the chapters have been streamlined as well to focus on the most relevant topics. All of this will help engineers approach facilities planning

with creativity and precision.

Systems Modeling and Simulation: Theory and Applications Doo-Kwon Baik
2005-02-07 This book constitutes the refereed post-proceedings of the third
Asian Simulation Conference, AsiaSim 2004, held in Jeju Island, Korea in
October 2004. The 78 revised full papers presented together with 2 invited
keynote papers were carefully reviewed and selected from 178 submissions; after
the conference, the papers went through another round of revision. The papers
are organized in topical sections on modeling and simulation methodology,
manufacturing, aerospace simulation, military simulation, medical simulation,
general applications, network simulation and modeling, e-business simulation,
numerical simulation, traffic simulation, transportation, virtual reality,
engineering applications, and DEVS modeling and simulation.

Metacontrolling im partizipativen Entwicklungscontrolling Markus Pütz
2011-12-17 Der effektiven Gestaltung von Controllingsystemen, die Gegenstand
des Metacontrollings ist, kommt eine große Bedeutung zu. Für die Anwendung des
Metacontrollings im partizipativen Entwicklungscontrolling konstruiert Markus
Pütz mehrere Ansätze zur formalsprachlichen Spezifikation und
simulationsgestützten Modellierung. Diese Ansätze ermöglichen es einerseits,
die Erfüllung der Anwendungsvoraussetzungen der in Controllingsystemen
vorgesehenen Methoden zu verifizieren und anderseits die betreffenden Methoden
vorab dahingehend auf Validität zu prüfen, ob die mit ihrem Einsatz
angestrebten Controllingziele erfüllt werden können.

Agile Manufacturing: The 21st Century Competitive Strategy A. Gunasekaran
2001-01-25 Agile manufacturing is defined as the capability of surviving and
prospering in a competitive environment of continuous and unpredictable change
by reacting quickly and effectively to changing markets, driven by customer-
designed products and services. Critical to successfully accomplishing AM are a
few enabling technologies such as the standard for the exchange of products
(STEP), concurrent engineering, virtual manufacturing, component-based
hierarchical shop floor control system, information and communication
infrastructure, etc. The scope of the book is to present the undergraduate and
graduate students, senior managers and researchers in manufacturing systems
design and management, industrial engineering and information technology with
the conceptual and theoretical basis for the design and implementation of AMS.
Also, the book focuses on broad policy directives and plans of agile
manufacturing that guide the monitoring and evaluating the manufacturing
strategies and their performance. A problem solving approach is taken
throughout the book, emphasizing the context of agile manufacturing and the
complexities to be addressed.

Handbook of Industrial Engineering Gavriel Salvendy 2001-05-25 Unrivaled
coverage of a broad spectrum of industrial engineering concepts and
applications The Handbook of Industrial Engineering, Third Edition contains a
vast array of timely and useful methodologies for achieving increased
productivity, quality, and competitiveness and improving the quality of working

life in manufacturing and service industries. This astoundingly comprehensive resource also provides a cohesive structure to the discipline of industrial engineering with four major classifications: technology; performance improvement management; management, planning, and design control; and decision-making methods. Completely updated and expanded to reflect nearly a decade of important developments in the field, this Third Edition features a wealth of new information on project management, supply-chain management and logistics, and systems related to service industries. Other important features of this essential reference include: * More than 1,000 helpful tables, graphs, figures, and formulas * Step-by-step descriptions of hundreds of problem-solving methodologies * Hundreds of clear, easy-to-follow application examples * Contributions from 176 accomplished international professionals with diverse training and affiliations * More than 4,000 citations for further reading The Handbook of Industrial Engineering, Third Edition is an immensely useful one-stop resource for industrial engineers and technical support personnel in corporations of any size; continuous process and discrete part manufacturing industries; and all types of service industries, from healthcare to hospitality, from retailing to finance. Of related interest . . . HANDBOOK OF HUMAN FACTORS AND ERGONOMICS, Second Edition Edited by Gavriel Salvendy (0-471-11690-4) 2,165 pages 60 chapters "A comprehensive guide that contains practical knowledge and technical background on virtually all aspects of physical, cognitive, and social ergonomics. As such, it can be a valuable source of information for any individual or organization committed to providing competitive, high-quality products and safe, productive work environments."- John F. Smith Jr., Chairman of the Board, Chief Executive Officer and President, General Motors Corporation (From the Foreword)

Mine Planning and Equipment Selection 2004 Monika Hardygóra 2004-08-15 Spearheading the promotion of international technology transfer in the fields of mine planning, mining systems design, equipment selection and operation techniques, the International Symposium on Mine Planning and Equipment Selection is recognised by the mining society as a key annual event in highlighting developments within the field. Here in this volume, proceedings from the thirteenth annual symposium concentrate on the following major topics: * open pit and underground mine planning, modelling and design * geomechanics * mining and processing methods * design, monitoring and maintenance of mine equipment * simulation, optimalization and control of technological processes * management, mine economics and financial analysis * health, safety and environmental protection. Including 147 papers from leading experts and authorities, Mine Planning and Equipment Selection undoubtedly provides valuable information and insight for a range of engineers, scientists, researchers and consultants involved in the planning, design and operation of underground and surface mines.

<u>Computer Systems Performance Evaluation and Prediction</u> Paul Fortier 2003-06-25 Table of contents

Advances in Hybrid Information Technology Marcin S. Szczuka 2007-12-08 Complete

with online files and updates, this important new volume covers many of the areas in which hybrid information technology is advancing. The book is the thoroughly refereed post-proceedings of the First International Conference on Hybrid Information Technology, held in Korea in 2006. More than 60 revised papers were carefully selected during a second round of reviewing from 235 reports given at the conference, and are presented in extended version in the book.