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Mobile Intelligent Autonomous Systems Jitendra R. Raol 2016-04-19 Going beyond the traditional field of robotics to include other mobile vehicles, Mobile Intelligent Autonomous Systems describes important theoretical concepts, techniques, approaches, and applications that can be used to build truly mobile intelligent autonomous systems (MIAS). It offers a

comprehensive treatment of robotics and MIAS, as well as r
Robotics, CAD/CAM Market Place, 1985 1985
Interoperable and Distributed Processing in GIS Andrej Vckovaki 2003-09-02 This text shows how the principles and technologies of object-oriented programming, distributed processing and internet protocols can be embraced to further the reliability and interoperability of datasets for the professional GIS market. The book describes the central concept of the interface specification between the data consumer and producer - the Virtual Data Set VDS. It then examines how VDS deals with two other classes of model - field representations and modelling uncertainty. The final part of the book looks at implementation, describing how the VDS interacts with PostScript, Java, and Object-oriented modelling environments.
ICTs and Sustainable Solutions for the Digital Divide: Theory and Perspectives Steyn, Jacques 2010-09-30 ICTs and Sustainable Solutions for the Digital Divide: Theory and Perspectives focuses on Information and Communication Technologies for Development (ICT4D), which includes any technology used for communication and information. This publication researches the social side of computing, the users, and the design of systems that meet the needs of "ordinary" users.
Systems Analysis and Simulation, 1985 Achim Sydow 1985
Corrosion in Amine Treating Units Johan van Roij 2021-11-03 Corrosion in Amine Treating Units, Second Edition presents a fully updated resource with a broadened focus that includes corrosion in not only refining operations, but also in oil and gas production. New

sections have been added on inhibition, corrosion modeling and metallic coatings. More detailed descriptions of the degradation mechanisms and Integrity Operating Windows (IOW) are now included, as is more in-depth information on guidelines for what sections and locations are most vulnerable to corrosion and how to control corrosion in amine units e.g., using corrosion Loop descriptions and providing indicative integrity operating windows for operation to achieve a suitable life expectance. Provides new insights on the degradation mechanisms occurring in amine treating units and the locations within the unit where they occur Discusses how to mitigate and control corrosion in amine units Provides guidance for setting up corrosion control documents and inspection and maintenance plans for amine treating units

A Course in Modern Control System Saurabh Mani Tripathi 2007

Proceedings of IEEE International Conference on Industrial Technology 2000 2000

Imitation Market Modeling in Digital Economy Elena G. Popkova 2022 This book includes the best studies on the results of the International Scientific and Practical Conference "New behaviors of market players in the digital economy," which was held by the Institute of Scientific Communications on July 8, 2021, online, in YouTube format. This book is devoted to the study of digital economy markets from the standpoint of various market players--society (consumers), entrepreneurship, and the state--from the standpoint of various sciences--economic, managerial, social, and legal--which ensures the multidisciplinarity of the book. The uniqueness of the book lies in the application of a new scientific and methodological approach to the study of digital economy markets--simulation modeling. The

advantages of a game-based scientific and methodological approach to reducing the uncertainty of economic processes and systems--a combination of quantitative and qualitative analytical methods, a systematic consideration of economic processes and systems from a socio-economic point of view--make it especially suitable for studying digital economy markets. The book identifies the impact of globalization and digitalization on the modern economy and industry markets. The trends and features of the use of advanced technologies in the digital economy markets are studied. The modern practices of business management and business integration in the digital economy are considered. The foundations of economic security and sustainable development of markets and enterprises in the digital economy are revealed. The book is suitable for scientists studying the markets of the digital economy, who will find in it scientific and methodological recommendations and developments on the application of game theory, as well as ready simulation models of the digital economy markets.

Spatial Data Analysis Robert P. Haining 2003-04-17 Table of contents

Blind Identification of Single-input Multiple-output Systems Gopal T. Venkatesan 1998

Understanding Information Retrieval Systems Marcia J. Bates 2011-12-20 In order to be effective for their users, information retrieval (IR) systems should be adapted to the specific needs of particular environments. The huge and growing array of types of information retrieval systems in use today is on display in Understanding Information Retrieval Systems: Management, Types, and Standards, which addresses over 20 typ

From Grand Challenges to Great Solutions: Digital Transformation in the Age of COVID-19

Shaokun Fan 2022-04-02 This book constitutes revised selected papers from the 20th Workshop on e-Business, WeB 2021, which took place virtually on December 11, 2021. The purpose of WeB is to provide a forum for researchers and practitioners to discuss findings, novel ideas, and lessons learned to address major challenges and map out the future directions for e-Business. The WeB 2021 theme was “From Grand Challenges to Great Solutions: Digital Transformation in the Age of COVID-19.” The 8 papers included in this volume were carefully reviewed and selected from a total of 24 submissions. The contributions are organized in topical sections as follows: digital innovation and transformation, and e-commerce and social media.
Control Systems—GATE, PSUS AND ES Examination Satish K Karna Test Prep for Control Systems—GATE, PSUS AND ES Examination
Pakistan Journal of Scientific Research 2004
IBM Systems Journal International Business Machines Corporation 1995
Cumulative Book Index 1989 A world list of books in the English language.
Applied Mechanics Reviews 1980
New Technical Books New York Public Library 1985
Digital Control Engineering M. Gopal 1988
Modern Control System Theory M. Gopal 1993 About the book... The book provides an integrated treatment of continuous-time and discrete-time systems for two courses at postgraduate level, or one course at undergraduate and one course at postgraduate level. It covers mainly two areas of modern control theory, namely; system theory, and multivariable

and optimal control. The coverage of the former is quite exhaustive while that of latter is adequate with significant provision of the necessary topics that enables a research student to comprehend various technical papers. The stress is on interdisciplinary nature of the subject. Practical control problems from various engineering disciplines have been drawn to illustrate the potential concepts. Most of the theoretical results have been presented in a manner suitable for digital computer programming along with the necessary algorithms for numerical computations.

Publishers' Trade List Annual 1995

Solutions and Innovations in Web-Based Technologies for Augmented Learning: Improved Platforms, Tools, and Applications Karacapilidis, Nikos 2009-02-28 "This book covers a wide range of the most current research in the development of innovative web-based learning solutions, specifically facilitating and augmenting learning in diverse contemporary organizational settings"--Provided by publisher.

Distributed Systems Security Abhijit Belapurkar 2009-02-11 How to solve security issues and problems arising in distributed systems. Security is one of the leading concerns in developing dependable distributed systems of today, since the integration of different components in a distributed manner creates new security problems and issues. Service oriented architectures, the Web, grid computing and virtualization – form the backbone of today’s distributed systems. A lens to security issues in distributed systems is best provided via deeper exploration of security concerns and solutions in these technologies. Distributed Systems Security provides a holistic insight into current security issues, processes, and

solutions, and maps out future directions in the context of today's distributed systems. This insight is elucidated by modeling of modern day distributed systems using a four-tier logical model –host layer, infrastructure layer, application layer, and service layer (bottom to top). The authors provide an in-depth coverage of security threats and issues across these tiers. Additionally the authors describe the approaches required for efficient security engineering, alongside exploring how existing solutions can be leveraged or enhanced to proactively meet the dynamic needs of security for the next-generation distributed systems. The practical issues thereof are reinforced via practical case studies. Distributed Systems Security: Presents an overview of distributed systems security issues, including threats, trends, standards and solutions. Discusses threats and vulnerabilities in different layers namely the host, infrastructure, application, and service layer to provide a holistic and practical, contemporary view of enterprise architectures. Provides practical insights into developing current-day distributed systems security using realistic case studies. This book will be of invaluable interest to software engineers, developers, network professionals and technical/enterprise architects working in the field of distributed systems security. Managers and CIOs, researchers and advanced students will also find this book insightful.

Health Technologies and Innovations to Effectively Respond to the COVID-19 Pandemic Björn Wolfgang Schuller 2022-03-10

Digital Innovation for Healthcare in COVID-19 Pandemic: Strategies and Solutions Patricia Ordóñez de Pablos 2022-03-25 Digital Innovation for Healthcare in COVID-19 Pandemic: Strategies and Solutions provides comprehensive knowledge and insights on the application

of information technologies in the healthcare sector, sharing experiences from leading researchers and academics from around the world. The book presents innovative ideas, solutions and examples to deal with one of the major challenges of the world, a global problem with health, economic and political dimensions. Advanced information technologies can play a key role in solving problems generated by the COVID-19 outbreak. The book addresses how science, technology and innovation can provide advances and solutions to new global health challenges. This is a valuable resource for researchers, clinicians, healthcare workers, policymakers and members of the biomedical field who are interested in learning how digital technologies can help us avoid and solve global disease dissemination. Presents real-world cases with experiences of applications of healthcare solutions during the pandemic of COVID-19 Discusses new approaches, theories and tools developed during an unprecedented health situation and how they can be used afterwards Encompasses information on preparedness for future outbreaks to make less costly and more effective healthcare responses to crises

Journal of the Institution of Electronics and Telecommunication Engineers Institution of Electronics and Telecommunication Engineers (India) 1975

Control & Instrumentation 1982

IETE Technical Review 1988

The Cumulative Book Index 1989

Systems Analysis and Simulation 1985

Systems Analysis and Simulation 1985: Applications

Achim Sydow 1985

Transients in Electrical Systems: Analysis, Recognition, and Mitigation J. C. Das 2010-05-06 Detect and Mitigate Transients in Electrical Systems This practical guide explains how to identify the origin of disturbances in electrical systems and analyze them for effective mitigation and control. Transients in Electrical Systems considers all transient frequencies, ranging from 0.1 Hz to 50 MHz, and discusses transmission line and cable modeling as well as frequency dependent behavior. Results of EMTP simulations, solved examples, and detailed equations are included in this comprehensive resource. Transients in Electrical Systems covers: Transients in lumped circuits Control systems Lightning strokes, shielding, and backflashovers Transients of shunt capacitor banks Switching transients and temporary overvoltages Current interruption in AC circuits Symmetrical and unsymmetrical short-circuit currents Transient behavior of synchronous generators, induction and synchronous motors, and transformers Power electronic equipment Flicker, bus, transfer, and torsional vibrations Insulation coordination Gas insulated substations Transients in low-voltage and grounding systems Surge arresters DC systems, short-circuits, distributions, and HVDC Smart grids and wind power generation

Journal of the Institution of Engineers (India). 1996

Local Area Network Interconnection Raif O. Onvural 2012-12-06 There are many exciting trends and developments in the communications industry, several of which are related to advances in fast packet switching, multi media services, asynchronous transfer mode (ATM) and high-speed protocols. It seems fair to say that the face of networking has been rapidly

changing and the distinction between LANs, MANs, and WANs is becoming more and more blurred. It is commonly believed in the industry that ATM represents the next generation in networking. The adoption of ATM standards by the research and development community as a unifying technology for communications that scales from local to wide area has been met with great enthusiasm from the business community and end users. Reflecting these trends, the technical program of the First International Conference on LAN Interconnection consists of papers addressing a wide range of technical challenges and state of the art reviews. We are fortunate to have assembled a strong program committee, expert speakers, and panelists. We would like to thank Professor Schwartz for his keynote speech. We would like to thank Professor Yannis Viniotis and his students for the preparation of the index. We gratefully acknowledge the generous financial support of Dr. Jon Fjeld, Mr. Rick McGee, and Mr. David Witt, all of IBM-Research Triangle Park. We also would like to thank Ms. Mary Safford, our editor, and Mr. John Matzka, both at Plenum Press, for the publication of the proceedings.

National Conference on Environmental Problem-Solving with Geographic Information Systems 1995

Computational Science – ICCS 2021 Maciej Paszynski 2021-06-10 The six-volume set LNCS 12742, 12743, 12744, 12745, 12746, and 12747 constitutes the proceedings of the 21st International Conference on Computational Science, ICCS 2021, held in Krakow, Poland, in June 2021.* The total of 260 full papers and 57 short papers presented in this book set were carefully reviewed and selected from 635 submissions. 48 full and 14 short

papers were accepted to the main track from 156 submissions; 212 full and 43 short papers were accepted to the workshops/ thematic tracks from 479 submissions. The papers were organized in topical sections named: Part I: ICCS Main Track Part II: Advances in High-Performance Computational Earth Sciences: Applications and Frameworks; Applications of Computational Methods in Artificial Intelligence and Machine Learning; Artificial Intelligence and High-Performance Computing for Advanced Simulations; Biomedical and Bioinformatics Challenges for Computer Science Part III: Classifier Learning from Difficult Data; Computational Analysis of Complex Social Systems; Computational Collective Intelligence; Computational Health Part IV: Computational Methods for Emerging Problems in (dis-)Information Analysis; Computational Methods in Smart Agriculture; Computational Optimization, Modelling and Simulation; Computational Science in IoT and Smart Systems Part V: Computer Graphics, Image Processing and Artificial Intelligence; Data-Driven Computational Sciences; Machine Learning and Data Assimilation for Dynamical Systems; MeshFree Methods and Radial Basis Functions in Computational Sciences; Multiscale Modelling and Simulation Part VI: Quantum Computing Workshop; Simulations of Flow and Transport: Modeling, Algorithms and Computation; Smart Systems: Bringing Together Computer Vision, Sensor Networks and Machine Learning; Software Engineering for Computational Science; Solving Problems with Uncertainty; Teaching Computational Science; Uncertainty Quantification for Computational Models *The conference was held virtually. Chapter “Intelligent Planning of Logistic Networks to Counteract Uncertainty Propagation” is available open access under a Creative Commons Attribution 4.0

International License via link.springer.com. The six-volume set LNCS 12742, 12743, 12744, 12745, 12746, and 12747 constitutes the proceedings of the 21st International Conference on Computational Science, ICCS 2021, held in Krakow, Poland, in June 2021.* The total of 260 full papers and 57 short papers presented in this book set were carefully reviewed and selected from 635 submissions. 48 full and 14 short papers were accepted to the main track from 156 submissions; 212 full and 43 short papers were accepted to the workshops/ thematic tracks from 479 submissions. The papers were organized in topical sections named: Part I: ICCS Main Track Part II: Advances in High-Performance Computational Earth Sciences: Applications and Frameworks; Applications of Computational Methods in Artificial Intelligence and Machine Learning; Artificial Intelligence and High-Performance Computing for Advanced Simulations; Biomedical and Bioinformatics Challenges for Computer Science Part III: Classifier Learning from Difficult Data; Computational Analysis of Complex Social Systems; Computational Collective Intelligence; Computational Health Part IV: Computational Methods for Emerging Problems in (dis-)Information Analysis; Computational Methods in Smart Agriculture; Computational Optimization, Modelling and Simulation; Computational Science in IoT and Smart Systems Part V: Computer Graphics, Image Processing and Artificial Intelligence; Data-Driven Computational Sciences; Machine Learning and Data Assimilation for Dynamical Systems; MeshFree Methods and Radial Basis Functions in Computational Sciences; Multiscale Modelling and Simulation Part VI: Quantum Computing Workshop; Simulations of Flow and Transport: Modeling, Algorithms and Computation; Smart Systems: Bringing Together Computer Vision, Sensor Networks

and Machine Learning; Software Engineering for Computational Science; Solving Problems with Uncertainty; Teaching Computational Science; Uncertainty Quantification for Computational Models *The conference was held virtually. Chapter “Intelligent Planning of Logistic Networks to Counteract Uncertainty Propagation” is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com. Chapter: Modelling and Forecasting Based on Recurrent Pseudoinverse Matrices” is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com. Resource Management for Distributed Multimedia Systems Lars Christian Wolf 2012-12-06 Resource Management for Distributed Multimedia Systems addresses the problems and challenges of handling several continuous- media data streams in networked multimedia environments. The work demonstrates how resource management mechanisms can be integrated into a stream handling system. The resulting system includes functions for Quality of Service (QoS) calculations, scheduling, determination of resource requirements, and methods to reduce resource requirements. The work explains the following: a suitable system architecture and resource management scheme that allows for the provision and enforcement of QoS guarantee, resource scheduling mechanisms for CPU and buffer space, mechanisms to measure and collect resource requirements, methods to extend resource management to future scenarios by allowing the reservation of resources in advance and offering sealing mechanisms. . Resource Management for Distributed Multimedia Systems is a comprehensive view of resource management for a broad technical audience that includes

computer scientists and engineers involved in developing multimedia applications. Control Systems M. Gopal 2008 Part of the McGraw-Hill Core Concepts Series, Control Systems: Principles and Design is a textbook for a control systems course at the advanced undergraduate level. The book presents a balanced approach, incorporating the frequency-response, root locus and state-variable methods as well as discussing the digital control of systems. MATLAB and real-world problems and examples are integrated throughout the book, so that practical applications are emphasized over theory. About the Core Concepts in Electrical Engineering Series:As advances in networking and communications bring the global academic community even closer together, it is essential that textbooks recognize and respond to this shift. It is in this spirit that we will publish textbooks in the McGraw-Hill Core Concepts in Electrical Engineering Series. The series will offer textbooks for the global electrical engineering curriculum that are reasonably priced, innovative, dynamic, and will cover fundamental subject areas studied by Electrical and Computer Engineering students. Written with a global perspective and presenting the latest in technological advances, these books will give students of all backgrounds a solid foundation in key engineering subjects. Application of Flexible AC Transmission System Devices in Wind Energy Conversion Systems Ahmed Abu-Siada 2017-09-28 This book presents information about the application of various flexible AC transmission system devices to wind energy conversion systems. Devices such as unified power flow controllers, superconducting magnetic energy storage and static synchronous compensators are covered in this book. Chapters detail features of the topology and basic control systems of each device. Additionally, case studies

are presented where necessary to demonstrate practical applications. This book is a reference for students and technicians studying wind power and AC transmission systems in advanced engineering courses.