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Noise Control, Reduction and Cancellation Solutions in EngineeringBoD – Books on Demand
Handbook for Sound Engineers DIANE Publishing

Technology in Supply Chain Management and Logistics: Current Practice and Future Applications analyzes the implications of these technologies in a variety of supply chain settings, including block chain, Internet of Things (IoT), inventory optimization, and medical supply chain. This book outlines how technologies are being utilized for product planning, materials management and inventory, transportation and distribution, workflow, maintenance, the environment, and in health and safety. Readers will gain a better understanding of the implications of these technologies with respect to value creation, operational effectiveness, investment level, technical migration and general industry acceptance. In addition, the book features case studies, providing a real-world look at supply chain technology implementations, their necessary training requirements, and how these new technologies integrate with existing business technologies. Identifies emerging supply chain technologies and trends in technology acceptance and utilization levels across various industry sectors Assists professionals with technology investment decisions, procurement, best values, and how they can be utilized for logistics operations Features videos showing technology application, including optimization software, cloud computing, mobility, 3D printing, autonomous vehicles, drones and machine learning

Decomposition Methods for Differential Equations Springer Nature

Embedded systems have long become essential in application areas in which human control is impossible or infeasible. The development of modern embedded systems is becoming increasingly difficult and challenging because of their overall system complexity, their tighter and cross-functional integration, the increasing requirements concerning safety and real-time behavior, and the need to reduce development and operation costs. This book provides a comprehensive overview of the Software Platform Embedded Systems (SPES) modeling framework and demonstrates its applicability in embedded system development in various industry domains such as automation, automotive, avionics, energy, and healthcare. In SPES 2020, twenty-one partners from academia and industry have joined forces in order to develop and evaluate in different industrial domains a modeling framework that reflects the current state of the art in embedded systems engineering. The content of this book is structured in four parts. Part I "Starting Point" discusses the status quo of embedded systems development and model-based engineering, and summarizes the key requirements faced when developing embedded systems in different application domains. Part II "The SPES Modeling Framework" describes the SPES modeling framework. Part III "Application and Evaluation of the SPES Modeling Framework" reports on the validation steps taken to ensure that the framework met the requirements discussed in Part I. Finally, Part IV "Impact of the SPES Modeling Framework" summarizes the results achieved and provides an outlook on future work. The book is mainly aimed at professionals and practitioners who deal with the development of embedded systems on a daily basis. Researchers in academia and industry may use it as a compendium for the requirements and state-of-the-art solution concepts for embedded systems development.

Citizen Science CRC Press

This book is a collection of chapters on issues we face today in the world of supply chain management. While there are a number of college textbooks related to specific areas within logistics and supply chain issues, there are very few general supply chain management "trends" books. Contemporary Issues in Supply Chain Management and Logistics consists of seven dynamic, current and informative chapters that cover a variety of cutting-edge supply chain topics of use to both graduate students, and professionals working in the field. The book contains new, original research papers written by academics from the fields of engineering, transportation, marketing, and supply chain management and logistics.

Sustainability in Energy and Buildings 2020 CRC Press

This new Edition of Electronic Commerce is a complete update of the leading graduate level/advanced undergraduate level textbook on the subject. Electronic commerce (EC) describes the manner in which transactions take place over electronic networks, mostly the Internet. It is the process of electronically buying and selling goods, services, and information. Certain EC applications, such as buying and selling stocks and airline tickets online, are reaching maturity, some even exceeding non-Internet trades. However, EC is not just about buying and selling; it also is about electronically communicating, collaborating, and discovering information. It is about e-learning, e-government, social networks, and much more. EC is having an impact on a significant portion of the world, affecting businesses, professions, trade, and of course, people. The most important developments in EC since 2014 are the continuous phenomenal growth of social networks, especially Facebook, LinkedIn and Instagram, and the trend toward conducting EC with mobile devices. Other major developments are the expansion of EC globally, especially in China where you can find the world's largest EC company. Much attention is lately being given to smart

commerce and the use of AI-based analytics and big data to enhance the field. Finally, some emerging EC business models are changing industries (e.g., the shared economy models of Uber and Airbnb). The 2018 (9th) edition, brings forth the latest trends in e-commerce, including smart commerce, social commerce, social collaboration, shared economy, innovations, and mobility.

R/E Springer

The examination of personality and individual differences is a major field of research in the modern discipline of psychology. Concerned with the ways humans develop an organized set of characteristics to shape themselves and the world around them, it is a study of how people come to be 'different' and 'similar' to others, on both an individual and a cultural level. This volume explores the scientific foundations of personality and individual differences, in chapters arranged across three thematic sections: Part 1: Theoretical Perspectives on Personality and Individual Differences Part 2: Research Strategies for Studying Personality and Individual Differences Part 3: The Measurement of Personality and Individual Differences With outstanding contributions from leading scholars across the world, this is an invaluable resource for researchers and graduate students.

Proceedings of the Fifth HPI Cloud Symposium "Operating the Cloud" 2017 Springer

This volume describes and explores the emerging discipline of conservation paleobiology, and addresses challenges faced by established and young Conservation Paleobiologist's alike. In addition, this volume includes applied research highlighting how conservation paleobiology can be used to understand ecosystem response to perturbation in near and deep time. Across 10 chapters, the book aims to (1) explore the goals of conservation paleoecology as a science, (2) highlight how conservation paleoecology can be used to understand ecosystems' responses to crises, (3) provide case studies of applications to modern ecosystems, (4) develop novel applications of paleontological approaches to neontological data, and (5) present a range of ecosystem response and recovery through environmental crises, from high-resolution impacts on organism interactions to the broadest scale of responses of the entire marine biosphere to global change. The volume will be of interest to paleoecologists, paleobiologists, and conservation biologists.

IT Systems in Public Transport Springer Nature

This book was developed during a particular pandemic situation in the whole world which confined people to their homes. Therefore, there was a rise in the use of distance working and learning (e-learning) which led to a very quick adoption of technology in order to guarantee different approaches to fulfil the same or better outcomes and ensure that people are connected. This book provides a better understanding about the importance of teams' assessment and collaborative work, as well as the use of collaboration tools and online assessment techniques supported by technology. Consequently, the book is aimed at all institutions that seek new working environments, namely higher education institutions, companies and organizations, sports teams, and others. Furthermore, this book provides new approaches and systems to carry the knowledge and learning assessment. The book gathers knowledge from several authors, related to collaboration environments and tools, as well as their insights on how technology can be applied to carry assessment processes. The book seeks to provide knowledge on new technologies and different learning environments.

The Gold Book Twin Cities CRC Press

This book explores emerging research and pedagogy in analytics and data science that have become core to many businesses as they work to derive value from data. The chapters examine the role of analytics and data science to create, spread, develop and utilize analytics applications for practice. Selected chapters provide a good balance between discussing research advances and pedagogical tools in key topic areas in analytics and data science in a systematic manner. This book also focuses on several business applications of these emerging technologies in decision making, i.e., business analytics. The chapters in Analytics and Data Science: Advances in Research and Pedagogy are written by leading academics and practitioners that participated at the Business Analytics Congress 2015. Applications of analytics and data science technologies in various domains are still evolving. For instance, the explosive growth in big data and social media analytics requires examination of the impact of these technologies and applications on business and society. As organizations in various sectors formulate their IT strategies and investments, it is imperative to understand how various analytics and data science approaches contribute to the improvements in organizational information processing and decision making. Recent advances in computational capacities coupled by improvements in areas such as data warehousing, big data, analytics, semantics, predictive and descriptive analytics, visualization, and real-time analytics have particularly strong implications on the growth of analytics and data science.

Contemporary Issues in Supply Chain Management and Logistics Springer Science & Business Media

This book presents the state of the art in high-performance computing and simulation on modern supercomputer architectures. It covers trends in hardware and software development in general and the future of high-performance systems and heterogeneous architectures in particular. The application-related contributions cover computational fluid dynamics, material science, medical applications and climate research; innovative fields such as coupled multi-physics and multi-scale simulations are highlighted. All papers were chosen from presentations given at the 18th Workshop on Sustained Simulation Performance held at the HLRS, University of Stuttgart, Germany in October 2013 and subsequent Workshop of the same name held at Tohoku University in March 2014.

Domain Decomposition Methods in Science and Engineering Business Expert Press

This open access book summarizes the research done and results obtained in the second funding phase of the Priority Program 1648 "Software for Exascale Computing" (SPPEXA) of the German Research Foundation (DFG) presented at the SPPEXA Symposium in Dresden during October 21-23, 2019. In that respect, it both represents a continuation of Vol. 113 in Springer's series Lecture Notes in Computational Science and Engineering, the corresponding report of SPPEXA's first funding phase, and provides an overview of SPPEXA's contributions towards exascale computing in today's supercomputer technology. The individual chapters address one or more of the research directions (1) computational algorithms, (2) system software, (3) application software, (4) data management and exploration, (5) programming, and (6) software tools. The book has an interdisciplinary appeal: scholars from computational sub-fields in computer science, mathematics, physics, or engineering will find it of particular interest.

Human Machine Interface-based Neuromodulation Solutions for Neurorehabilitation IGI Global

This book contains the proceedings of the 12th KES International Conference on Sustainability and Energy in Buildings 2020 (SEB20) held in Split, Croatia, during 24–26 June 2020 organized by KES International. SEB20 invited contributions on a range of topics related to sustainable buildings and explored innovative themes regarding sustainable energy systems. The aim of the conference is to bring together researchers, and government and industry professionals to discuss the future of energy in buildings, neighbourhoods and cities from a theoretical, practical, implementation and

simulation perspective. The conference formed an exciting chance to present, interact and learn about the latest research and practical developments on the subject. The conference attracted submissions from around the world. Submissions for the Full-Paper Track were subjected to a blind peer-review process. Only the best of these were selected for presentation at the conference and publication in these proceedings. It is intended that this book provides a useful and informative snapshot of recent research developments in the important and vibrant area of sustainability in energy and buildings. [Scientific Computing and Algorithms in Industrial Simulations](#) Springer

This book constitutes the thoroughly refereed post proceedings of the 5th International Haifa Verification Conference, HVC 2009, held in Haifa, Israel in October 2009. The 11 revised full papers presented together with four abstracts of invited lectures were carefully reviewed and selected from 23 submissions. The papers address all current issues, challenges and future directions of verification for hardware, software, and hybrid systems and present academic research in the verification of systems, generally divided into two paradigms - formal verification and dynamic verification (testing).

Sustained Simulation Performance 2014 Springer

Understanding the social relations within the fields of business and economics is vital for the promotion of success within a certain organization. Analytics and statistics have taken a prominent role in marketing and management practices as professionals are constantly searching for a competitive advantage. Converging these technological tools with traditional methods of business relations is a trending area of research. [Applied Social Network Analysis With R: Emerging Research and Opportunities](#) is an essential reference source that materializes and analyzes the issue of structure in terms of its effects on human societies and the state of the individuals in these communities. Even though the theme of the book is business-oriented, an approach underlining and strengthening the ties of this field of study with social sciences for further development is adopted throughout. Therefore, the knowledge presented is valid for analyzing not only the organization of the business world but also for the organization of any given community. Featuring research on topics such as network visualization, graph theory, and micro-dynamics, this book is ideally designed for researchers, practitioners, business professionals, managers, programmers, academicians, and students seeking coverage on analyzing social and business networks using modern methods of statistics, programming, and data sets.

[Workgroups eAssessment: Planning, Implementing and Analysing Frameworks](#) Springer Science & Business Media

At first glance, public transport in the majority of cities and regions around the world would not be considered high-tech by most passengers. However, when taking a closer look at the systems that are necessary to attract/retain passengers and ensure efficient operations, the importance of IT and the high-tech nature of the public transport sector becomes clear. Transport operators use advanced information technology products in order to plan, optimise and manage their fleets and staff. Sophisticated software systems support and drive these tasks. Furthermore, these systems are used to manage daily operations, which includes monitoring and dispatching of rolling stock and crew, providing passengers with realtime information, electronic ticketing and much more. As in many industries, public transport and associated IT standards vary around the world. Several operators have invested significantly in public transport, while others have a great deal of catching up to do. Strategic investments in public transport can significantly improve the quality of life in cities and regions. IT systems play a vital role in supporting this aim. Why write this book? For what purpose and for which audience? Above all, this book is intended for those who develop, implement and operate public transport IT systems. These readers need to be familiar with the software and understand public transport IT systems both at a high level and in detail. This is achieved through descriptions of public transport business processes and a detailed illustration of a comprehensive systems data model. Furthermore, the book was written for professors and students of transport and IT, at universities and other institutes of higher education. Finally, the book is intended for those in the public transport industry who use these systems and want, or need, to understand the systems in further detail.

Marine Conservation Paleobiology IGI Global

Handbook for Sound Engineers is the most comprehensive reference available for audio engineers, and is a must read for all who work in audio. With contributions from many of the top professionals in the field, including Glen Ballou on interpretation systems, intercoms, assistive listening, and fundamentals and units of measurement, David Miles Huber on MIDI, Bill Whitlock on audio transformers and preamplifiers, Steve Dove on consoles, DAWs, and computers, Pat Brown on fundamentals, gain structures, and test and measurement, Ray Rayburn on virtual systems, digital interfacing, and preamplifiers, Ken Pohlmann on compact discs, and Dr. Wolfgang Ahnert on computer-aided sound system design and room-acoustical fundamentals for auditoriums and concert halls, the Handbook for Sound Engineers is a must for serious audio and acoustic engineers. The fifth edition has been updated to reflect changes in the industry, including added emphasis on increasingly prevalent technologies such as software-based recording systems, digital recording using MP3, WAV files, and mobile devices. New chapters, such as Ken Pohlmann's Subjective Methods for Evaluating Sound Quality, S. Benjamin Kanters's Hearing Physiology—Disorders—Conservation, Steve Barbar's Surround Sound for Cinema, Doug Jones's Worship Styles in the Christian Church, sit aside completely revamped staples like Ron Baker and Jack Wrightson's Stadiums and Outdoor Venues, Pat Brown's Sound System Design, Bob Cordell's Amplifier Design, Hardy Martin's Voice Evacuation/Mass Notification Systems, and Tom Danley and Doug Jones's Loudspeakers. This edition has been honed to bring you the most up-to-date information in the many aspects of audio engineering. Springer Science & Business Media

The book contains reports about the most significant projects from science and engineering of the Federal High Performance Computing Center Stuttgart (HLRS). They were carefully selected in a peer-review process and are showcases of an innovative combination of state-of-the-art modeling, novel algorithms and the use of leading-edge parallel computer technology. The projects of HLRS are using supercomputer systems operated jointly by university and industry and therefore a special emphasis has been put on the industrial relevance of results and methods.

Pentaho Analytics for MongoDB Cookbook Springer

An overview of recent developments in high performance computing and simulation, with special emphasis on the industrial relevance of the presented results and methods. The book showcases an innovative combination of the state-of-the-art modeling, novel numerical algorithms and the use of leading-edge high-performance computing systems.

Handbook of Research on Service-Oriented Systems and Non-Functional Properties: Future Directions Universitätsverlag Potsdam

Over 50 recipes to learn how to use Pentaho Analytics and MongoDB to create powerful analysis and reporting solutions About This Book Create reports and stunning dashboards with MongoDB data Accelerate data access and maximize productivity with unique features of Pentaho for MongoDB A step-by-step recipe-based guide for making full use of Pentaho suite tools with MongoDB Who This Book Is For This book is intended for data architects and developers with a basic level of knowledge of MongoDB. Familiarity with Pentaho is not expected. What You Will Learn Extract, load, and transform data from MongoDB collections to other datasources Design Pentaho Reports using different types of connections for MongoDB Create a OLAP mondrian schema for MongoDB Explore your MongoDB data using Pentaho Analyzer Utilize the drag and drop web interface to create dashboards Use Kettle Thin JDBC with MongoDB for analysis Integrate advanced dashboards with MondoDB using different types of connections Publish and run a report on Pentaho BI server using a web interface In Detail MongoDB is an open source, schemaless NoSQL database system. Pentaho as a famous open source Analysis tool

provides high performance, high availability, and easy scalability for large sets of data. The variant features in Pentaho for MongoDB are designed to empower organizations to be more agile and scalable and also enables applications to have better flexibility, faster performance, and lower costs. Whether you are brand new to online learning or a seasoned expert, this book will provide you with the skills you need to create turnkey analytic solutions that deliver insight and drive value for your organization. The book will begin by taking you through Pentaho Data Integration and how it works with MongoDB. You will then be taken through the Kettle Thin JDBC Driver for enabling a Java application to interact with a database. This will be followed by exploration of a MongoDB collection using Pentaho Instant view and creating reports with MongoDB as a datasource using Pentaho Report Designer. The book will then teach you how to explore and visualize your data in Pentaho BI Server using Pentaho Analyzer. You will then learn how to create advanced dashboards with your data. The book concludes by highlighting contributions of the Pentaho Community. Style and approach A comprehensive, recipe-based guide to take complete advantage of the Pentaho Analytics for MongoDB.

Hardware and Software: Verification and Testing CRC Press

Dedicated to the proper design, layout, and location of facilities, this definitive textbook outlines the main design and operational problems that occur in manufacturing and service systems, explains the significance of facility design and planning problems, and describes how mathematical models can be used to help analyze and solve them. Combining theory with practice, this revised textbook presents state-of-the-art topics in materials handling, warehousing, and logistics along with real-world examples that emphasize the importance of modeling and analysis when determining a solution to complex facility design problems. Facilities Design, Fifth Edition includes a balanced coverage of modeling as well as applications of layout, materials handling, and warehousing. It presents automated materials handling along with queuing, queuing networks, and basic simulation modeling. The new edition introduces new material that includes topics such as supply chain designing and management, aggregate planning, and transportation, logistics, and distribution. The new edition will continue to provide access to available software and data files from the author's own website for many of the numerical examples contained in the book. A solutions manual, PowerPoint slides, and figure, slides are available for qualified textbooks adoptions. The book addresses facilities design and layout problems in manufacturing systems and covers layout, logistics, supply chain, aggregate planning, warehousing, and materials handling. The new edition continues to explain the ins and outs of facility planning and design and is an ideal textbook for students and a reference for professionals.