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IT Systems in Public Transport BoD – Books on Demand

Supply chain management (SCM) is the process of managing the operations of a system of organizations, people, activities, information, and resources involved in efficiently moving products or services from suppliers to customers. SCM can effectively conduct the movements of physical items, knowledge, and information from the original supplier to the final end-user. In this book, we explore the systemic analysis of SCM and its effect on business development performance. We identify the structural problems in the supply chain, clarify how they influence the functioning of business development, and suggest elaboration of strategic approaches to address those problems. The author includes professional perspectives and insights from experts including various SCM sources.

Human Machine Interface-based Neuromodulation Solutions for Neurorehabilitation Springer

The aim of this series is to publish promptly and in a detailed form new material from the field of Numerical Fluid Mechanics including the use of advanced computer systems. Published are

reports on specialized conferences, workshops, research programs, and monographs. Contents: This volume contains nineteen reports on work, which is conducted since 1998 in the Collaborative Research Programme "Numerical Flow Simulation" of the Centre National de la Recherche Scientifique (CNRS) and the Deutsche Forschungsgemeinschaft (DFG). French and German engineers and mathematicians present their joint research on the topics "Development of Solution Techniques", "Crystal Growth and Melts", "Flows of Reacting Gases", and "Turbulent Flows". In the background of their work is the still strong growth of the performance of super-computer architectures, which, together with large advances in algorithms, is opening vast new application areas of numerical flow simulation in research and industrial work. Results of this programme from the period 1996 to 1998 have been presented in NNFM 66 (1998)

Research Anthology on Strategies for Using Social Media as a Service and Tool in Business Springer

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.

Sustained Simulation Performance 2014 Noise Control, Reduction and Cancellation Solutions in Engineering

Written by the world's leading scholars and researchers in sound studies, this handbook offers new and engaging perspectives on the significance of sound in its material and cultural forms.

High Performance Computing in Science and Engineering 2000 Springer Science & Business Media

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.

Proceedings of the Fifth HPI Cloud Symposium "Operating the Cloud" 2017
Springer Science & Business Media

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.

Decomposition Methods for Differential Equations Springer
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.

Why the government should care about pornography : the state interest in protecting children and families CRC Press
Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today.

R/Æ Springer Science & Business Media
This book focuses on the interplay between pedagogy and technology, and their fusion for the advancement of smart learning environments. It discusses various components of this interplay, including learning and assessment paradigms, social factors and policies, emerging technologies, innovative application of mature

technologies, transformation of curriculum and teaching behavior, transformation of administration, best infusion practices, and piloting of new ideas. The book provides an archival forum for researchers, academics, practitioners and industry professionals interested and/or engaged in reforming teaching and learning methods by promoting smart learning environments. It also facilitates discussions and constructive dialogue among various stakeholders on the limitations of existing learning environments, the need for reform, innovative uses of emerging pedagogical approaches and technologies, and sharing and promoting best practices, leading to the evolution, design and implementation of smart learning environments.

Facilities Design IGI Global
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.

Handbook of Research on Service-Oriented Systems and Non-Functional Properties: Future Directions Universität tsverlag Potsdam
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 organised 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.

Applied Social Network Analysis With R: Emerging Research and Opportunities IGI Global
Jedes Jahr lädt das Hasso-Plattner-Institut (HPI) Gäste aus der Industrie und der Wissenschaft zu einem kooperativen und wissenschaftlichen Symposium zum Thema Cloud Computing ein. Unser Ziel ist es, ein Forum für den Austausch von Wissen und Erfahrungen zwischen der Industrie und der Wissenschaft zu bieten. Parallel zur Veranstaltung findet der HPI Future SOC Lab Tag statt, der eine zusätzliche attraktive Umgebung für wissenschaftliche und branchenbezogene Diskussionen bietet. Das Symposium zielt darauf ab, eine Plattform für produktive Interaktionen von innovativen Ideen, Visionen und aufkommenden Technologien im Bereich von Cloud Computing zu bitten. Anlässlich dieses Symposiums fordern wir die Einreichung von Forschungsarbeiten und Erfahrungsberichte. Dieser technische Bericht umfasst eine Zusammenstellung der im Rahmen des fünften HPI Cloud Symposiums "Operating the Cloud" 2017 angenommenen Forschungspapiere. Wir danken den Autoren für spannende

Vorträge und Einblicke in ihre aktuelle Arbeit und Forschung. Darüber hinaus freuen wir uns auf weitere interessante Einreichungen für das kommende Symposium im Laufe des Jahres. Every year, the Hasso Plattner Institute (HPI) invites guests from industry and academia to a collaborative scientific workshop on the topic Operating the Cloud. Our goal is to provide a forum for the exchange of knowledge and experience between industry and academia. Co-located with the event is the HPI's Future SOC Lab day, which offers an additional attractive and conducive environment for scientific and industry related discussions. Operating the Cloud aims to be a platform for productive interactions of innovative ideas, visions, and upcoming technologies in the field of cloud operation and administration. In these proceedings, the results of the fifth HPI cloud symposium Operating the Cloud 2017 are published. We thank the authors for exciting presentations and insights into their current work and research. Moreover, we look forward to more interesting submissions for the upcoming symposium in 2018.

Analytics and Data Science 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).

Domain Decomposition Methods in Science and Engineering Frontiers Media SA

Domain decomposition is an active, interdisciplinary research area that is devoted to the development, analysis and implementation of coupling and decoupling strategies in mathematics, computational science, engineering and industry. A series of international conferences starting in 1987 set the stage for the presentation of many meanwhile classical results on substructuring, block iterative methods, parallel and distributed high performance computing etc. This volume contains a selection from the papers presented at the 15th International Domain Decomposition Conference held in Berlin, Germany, July 17-25, 2003 by the world's leading experts in the field. Its special focus has been on numerical analysis, computational issues, complex heterogeneous problems, industrial problems, and software development.

Legislative Proposals to Protect Children from Inappropriate Materials on the Internet Springer Nature

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.

Technology in Supply Chain Management and Logistics Springer
Decomposition Methods for Differential Equations: Theory and Applications describes the analysis of numerical methods for evolution equations based on temporal and spatial decomposition methods. It covers real-life problems, the underlying decomposition and discretization, the stability and consistency analysis of the decomposition methods, and numerical results. The book focuses on the modeling of selected multi-physics problems, before introducing decomposition analysis. It presents time and space discretization, temporal decomposition, and the combination of time and spatial decomposition methods for parabolic and hyperbolic equations. The author then applies these methods to numerical problems, including test examples and real-world problems in physical and engineering applications. For the computational results, he uses various software tools, such as MATLAB® , R3T, WIAS-HiTNIHS, and OPERA-SPLITT. Exploring iterative operator-splitting methods, this book shows how to use higher-order discretization methods to solve differential equations. It discusses decomposition methods and their effectiveness, combination possibility with discretization methods, multi-scaling possibilities, and stability to initial and boundary values problems.

The Gold Book Twin Cities Prime Publications
The research and its outcomes presented in this collection focus on various aspects of high-performance computing (HPC) software and its development which is confronted with various challenges as today's supercomputer technology heads towards exascale computing. 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 collection thereby highlights pioneering research findings as well as innovative concepts in exascale software development that have been conducted under the umbrella of the priority programme "Software for Exascale Computing" (SPPEXA) of the German Research Foundation (DFG) and that have been presented at the SPPEXA Symposium, Jan 25-27 2016, in Munich. The book has an interdisciplinary appeal: scholars from computational sub-fields in computer science, mathematics, physics, or engineering will find it of particular interest.

The SAGE Handbook of Personality and Individual Differences
Springer Nature
Iterative Splitting Methods for Differential Equations explains how to solve evolution equations via novel iterative-based splitting methods that efficiently use computational and memory resources. It focuses on systems of parabolic and hyperbolic equations, including convection-diffusion-reaction equations, heat equations, and wave equations. In the theoretical part of the book, the author discusses the main theorems and results of the stability and consistency analysis for ordinary differential equations. He then presents extensions of the iterative splitting methods to partial differential equations and spatial- and time-dependent differential equations. The practical part of the text applies the methods to benchmark and real-life problems, such as waste disposal, elastics wave propagation,

and complex flow phenomena. The book also examines the benefits of equation decomposition. It concludes with a discussion on several useful software packages, including r3t and FIDOS. Covering a wide range of theoretical and practical issues in multiphysics and multiscale problems, this book explores the benefits of using iterative splitting schemes to solve physical problems. It illustrates how iterative operator splitting methods are excellent decomposition methods for obtaining higher-order accuracy.

Scientific Computing and Algorithms in Industrial Simulations Springer Science & Business Media

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.

Pentaho Analytics for MongoDB Cookbook DIANE Publishing

Noise has various effects on comfort, performance, and human health. For this reason, noise control plays an increasingly central role in the development of modern industrial and engineering applications. Nowadays, the noise control problem excites and attracts the attention of a great number of scientists in different disciplines. Indeed, noise control has a wide variety of applications in manufacturing, industrial operations, and consumer products. The main purpose of this book, organized in 13 chapters, is to present a comprehensive overview of recent advances in noise control and its applications in different research fields. The authors provide a range of practical applications of current and past noise control strategies in different real engineering problems. It is well addressed to researchers and engineers who have specific knowledge in acoustic problems. I would like to thank all the authors who accepted my invitation and agreed to share their work and experiences.