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*Model-Based Engineering of Embedded Systems* Springer Science & Business Media
Open source, community and crowd innovations have not only drastically changed the way products and services are developed, but also the way we work and live. Yet, organizations of all kinds, may they be small or large, globalized or local, etc., still struggle to effectively adapt to this social, however, technology-enabled trend. This work sheds light on community-based innovation development within organizations, i.e. organizational innovation communities. Three major questions are tackled: How to introduce organizational innovation communities, or how to build communities from scratch? How to manage organizational innovation communities, or can we manage creativity? How to foster employee engagement, or how to turn ordinary employees into innovation hot-spots? Based on qualitative as well as quantitative research methods, the author derives in-depth and surprising insights as well as hands-on recommendations to speed-up, improve, and foster innovation development. ?

*Network World* Springer
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.

**Design for Additive Manufacturing** Elsevier
**Microfluidics: Modeling, Mechanics and Mathematics, Second Edition provides a practical, lab-based approach to nano- and microfluidics, including a wealth of practical techniques, protocols and experiments ready to be put into practice in both research and industrial settings. This practical approach is ideally suited to researchers and R&D staff in industry. Additionally, the interdisciplinary approach to the science of nano- and microfluidics enables readers from a range of different academic disciplines to broaden their understanding. Alongside traditional fluid/transport topics, the book contains a wealth of coverage of materials and manufacturing techniques, chemical modification/surface functionalization, biochemical analysis, and the biosensors involved. This fully updated new edition also includes new sections on viscous flows and centrifugal microfluidics, expanding the types of platforms covered to include centrifugal, capillary and electro kinetic platforms. Provides a practical guide to the successful design and implementation of nano- and microfluidic processes (e.g., biosensing)**

and equipment (e.g., biosensors, such as diabetes blood glucose sensors) Provides techniques, experiments and protocols that are ready to be put to use in the lab, or in an academic or industry setting Presents a collection of 3D-CAD and image files on a companion website

Organizational Innovation Communities Springer

Services and service oriented computing have emerged and matured over the last decade, bringing with them a number of available services that are selected by users and developers and composed into larger applications. The Handbook of Research on Non-Functional Properties for Service-Oriented Systems: Future Directions unites different approaches and methods used to describe, map, and use non-functional properties and service level agreements. This handbook, which will be useful for both industry and academia, provides an overview of existing research and also sets clear directions for future work.

**Innovation Through Information Systems** Woodhead Publishing

This handbook holistically summarises the principles for the energy retrofitting of historic buildings, from the first diagnosis to the adequately designed intervention: preservation of the historic structure, user comfort, and energy efficiency. The content was developed by an interdisciplinary team of researchers. The wide range of different expertise, design examples, calculations, and measuring results from eight case studies makes this manual an indispensable tool for all architects, engineers, and energy consultants.

*Computerworld* Birkhäuser

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.

*Innovations in Embedded and Real-Time Systems Engineering for Communication* IGI Global

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.

**Sustained Simulation Performance 2014** IGI Global

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.

*IT Systems in Public Transport* Springer Science & Business Media

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

Technology in Supply Chain Management and Logistics Springer Nature

Theory, Models, and Applications in Engineering explains how to solve complicated coupled models in engineering using analytical and numerical methods. It presents splitting multiscale methods to solve multiscale and multi-physics problems and describes analytical and numerical methods in time and space for evolution equations arising in engineering problems. The book discusses the effectiveness, simplicity, stability, and consistency of the methods in solving problems that occur in real-life engineering tasks. It shows how MATLAB (R) and Simulink (R) are used to implement the methods. The author also covers the coupling of separate, multiple, and logical scales in applications, including microscale, macroscale, multiscale, and multi-physics problems. Covering mathematical, algorithmic, and practical aspects, this book brings together innovative ideas in coupled systems and extends standard engineering tools to coupled models in materials and flow problems with respect to their scale dependencies and their influence on each time and spatial scale

**Analytics and Data Science** Academic Press

This tutorial volume includes the revised and extended tutorials (briefings) held at the 5th International Summer School on Grand Timely Topics in Software Engineering, GTTSE 2015, in Braga, Portugal, in August 2015. GTTSE 2015 applied a broader scope to include additional areas of software analysis, empirical research, modularity, and product lines. The tutorials/briefings cover probabilistic program analysis, ontologies in software engineering, empirical evaluation of programming and programming languages, model synchronization management of software product families, "people analytics" in software development, DSLs in robotics, structured program generation techniques, advanced aspects of software refactoring, and name binding in language implementation.

*Domain Decomposition Methods in Science and Engineering* Simon and Schuster

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.

**Healthcare Systems Engineering** DIANE Publishing

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

*Rust Web Development* Springer

With the proliferation of information, big data management and analysis have become an indispensable part of any system to handle such amounts of data. The amount of data generated by the multitude of interconnected devices increases exponentially, making the storage and processing of these data a real challenge.Big data management and analytics have gained momentum

in almost every industry, ranging from finance or healthcare. Big data can reveal key insights if handled and analyzed properly; it has great application potential to improve the working of any industry. This book covers the spectrum aspects of big data; from the preliminary level to specific case studies. It will help readers gain knowledge of the big data landscape.Highlights of the topics covered include description of the Big Data ecosystem; real-world instances of big data issues; how the Vs of Big Data (volume, velocity, variety, veracity, valence, and value) affect data collection, monitoring, storage, analysis, and reporting; structural process to get value out of Big Data and recognize the differences between a standard database management system and a big data management system.Readers will gain insights into choice of data models, data extraction, data integration to solve large data problems, data modelling using machine learning techniques, Spark's scalable machine learning techniques, modeling a big data problem into a graph database and performing scalable analytical operations over the graph and different tools and techniques for processing big data and its applications including in healthcare and finance.

Why the government should care about pornography : the state interest in protecting children and families CRC Press

Technological advances in generated molecular and cell biological data are transforming biomedical research. Sequencing, multi-omics and imaging technologies are likely to have deep impact on the future of medical practice. In parallel to technological developments, methodologies to gather, integrate, visualize and analyze heterogeneous and large-scale data sets are needed to develop new approaches for diagnosis, prognosis and therapy. Systems Medicine: Integrative, Qualitative and Computational Approaches is an innovative, interdisciplinary and integrative approach that extends the concept of systems biology and the unprecedented insights that computational methods and mathematical modeling offer of the interactions and network behavior of complex biological systems, to novel clinically relevant applications for the design of more successful prognostic, diagnostic and therapeutic approaches. This 3 volume work features 132 entries from renowned experts in the fields and covers the tools, methods, algorithms and data analysis workflows used for integrating and analyzing multi-dimensional data routinely generated in clinical settings with the aim of providing medical practitioners with robust clinical decision support systems. Importantly the work delves into the applications of systems medicine in areas such as tumor systems biology, metabolic and cardiovascular diseases as well as immunology and infectious diseases amongst others. This is a fundamental resource for biomedical students and researchers as well as medical practitioners who need to need to adopt advances in computational tools and methods into the clinical practice. Encyclopedic coverage: ‘one-stop’ resource for access to information written by world-leading scholars in the field of Systems Biology and Systems Medicine, with easy cross-referencing of related articles to promote understanding and further research Authoritative: the whole work is authored and edited by recognized experts in the field, with a range of different expertise, ensuring a high quality standard Digitally innovative: Hyperlinked references and further readings, cross-references and diagrams/images will allow readers to easily navigate a wealth of information

Handbook of Research on Service-Oriented Systems and Non-Functional Properties: Future Directions CRC Press

Intelligent Hybrid Systems: Fuzzy Logic, Neural Networks, and Genetic Algorithms is an organized edited collection of contributed chapters covering basic principles, methodologies, and applications of fuzzy systems, neural networks and genetic algorithms. All chapters are original contributions by leading researchers written exclusively for this volume. This book reviews important concepts and models, and focuses on specific methodologies common to fuzzy systems, neural networks and evolutionary computation. The emphasis is on development of cooperative models of hybrid systems. Included are applications related to intelligent data analysis, process analysis, intelligent adaptive information systems, systems identification, nonlinear systems, power and water system design, and many others. Intelligent Hybrid Systems: Fuzzy Logic, Neural Networks, and Genetic Algorithms provides researchers and engineers with up-to-date coverage of new results, methodologies and applications for building intelligent systems capable of solving large-scale problems.

*Information Systems for the Fashion and Apparel Industry* Springer Nature

Create bulletproof, high-performance web apps and servers with Rust. In Rust Web Development you will learn: Handling the borrow checker in an asynchronous environment Learning the ingredients of an asynchronous Rust stack Creating web APIs and using JSON in Rust Graceful error handling Testing, tracing, logging, and debugging Deploying Rust applications Efficient database access Rust Web Development is a pragmatic, hands-on guide to creating server-based web applications with Rust. If you’ve designed web servers using Java, NodeJS, or PHP, you’ll instantly fall in love with the performance and development experience Rust delivers. Hit the ground running! Author Bastian Gruber’s sage advice makes it easy to start tackling complex problems with Rust. You’ll learn how to work efficiently using pure Rust, along with important Rust libraries such as tokio for async runtimes, warp for web servers and APIs, and reqwest to run external HTTP requests. About the technology If you’re sick of cookie-cutter

web development tools that are slow, resource hungry, and unstable, Rust is the solution. Rust services deliver rock-solid safety guarantees, an amazing developer experience, and even a compiler that automatically prevents common mistakes! About the book Rust Web Development, teaches you to build server-side web apps using Rust, along with important Rust libraries like tokio for async runtimes, warp for web servers and APIs, and reqwest to run external HTTP requests. The book is packed full of examples, code samples, and pro tips for setting up your projects and organizing your code. As you go, you'll build a complete Q&A web service and iterate on your code chapter-by-chapter, just like a real development project. What's inside Handle the borrow checker in an asynchronous environment Build web APIs and handle JSON Compose a tech stack for asynchronous Rust development Handle errors gracefully Test, trace, log, and debug Deploy Rust applications to multiple environments About the reader This book is for web developers familiar with Java, Node, or Go, and the absolute basics of Rust. About the author Bastian Gruber was part of the official Rust Async Working Group, and founded the Rust and Tell Berlin MeetUp group. Table of Contents PART 1 INTRODUCTION TO RUST 1 Why Rust? 2 Laying the foundation PART 2 GETTING STARTED 3 Create your first route handler 4 Implement a RESTful API 5 Clean up your codebase 6 Logging, tracing, and debugging 7 Add a database to your application 8 Integrate third-party APIs PART 3 BRING IT INTO PRODUCTION 9 Add authentication and authorization 10 Deploy your application 11 Testing your Rust application

Software for Exascale Computing - SPPEXA 2013-2015 Springer Science & Business Media

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.

R/E OUP USA

"This book discusses methods of using information technologies to support organizational and business objectives in both national and international contexts, describing the latest research on both the technical and non-technical aspects of contemporary information societies, including e-commerce, e-learning, e-government, and e-health"--Provided by publisher.

Energy Efficiency Solutions for Historic Buildings John Wiley & Sons

Now in Its Fourth Edition: Your Guide to Successful Facility Design Overcome design and planning problems using the fourth edition of Facilities Design. Dedicated to the proper design, layout, and location of facilities, this definitive guide 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 work 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. What's New in the Fourth Edition: The latest version introduces new material that includes handling equipment and systems, and presents relevant case studies in each and every chapter. It also provides access to Layout-iQ software, data files for many of the numerical examples that are contained throughout the book, and PowerPoint files for various chapters. Additionally, the author: Describes tools commonly used for presenting layout designs Presents traditional models for facility layout including the popular systematic layout planning (SLP) model in detail Provides a layout project involving the SLP model Covers group technology and cellular manufacturing at the elementary level Includes a project and case study on machine grouping and layout Considers next-generation factory layouts Discusses analytical queuing and queuing network models, and more Facilities Design, Fourth Edition explains the ins and outs of facility planning and design. A reference for both student and professional, the book addresses facilities design and layout problems in manufacturing systems and covers layout, logistics, supply chain, warehousing, and materials handling. Please visit the author's website for ancillary materials: http://sundere.okstate.edu/downloadable-software-programs-and-data-files.