

01Data Smart Systems

Jim Cook,Ahmed Mansour,Giancarlo Omati,Ana Flavia Pavan,Mark Roy,IBM Redbooks

Doing Data Science Cathy O'Neil,Rachel Schutt,2013-10-09 Now that people are aware that data can make the difference in an election or a business model, data science as an occupation is gaining ground. But how can you get started working in a wide-ranging, interdisciplinary field that's so clouded in hype? This insightful book, based on Columbia University's Introduction to Data Science class, tells you what you need to know. In many of these chapter-long lectures, data scientists from companies such as Google, Microsoft, and eBay share new algorithms, methods, and models by presenting case studies and the code they use. If you're familiar with linear algebra, probability, and statistics, and have programming experience, this book is an ideal introduction to data science. Topics include: Statistical inference, exploratory data analysis, and the data science process Algorithms Spam filters, Naive Bayes, and data wrangling Logistic regression Financial modeling Recommendation engines and causality Data visualization Social networks and data journalism Data engineering, MapReduce, Pregel, and Hadoop Doing Data Science is collaboration between course instructor Rachel Schutt, Senior VP of Data Science at News Corp, and data science consultant Cathy O'Neil, a senior data scientist at Johnson Research Labs, who attended and blogged about the course.

Smart Operation for Power Distribution Systems Daniel Pinheiro Bernardon,Vinicius Jacques Garcia,2018-07-27 This book discusses the operation of electrical distribution systems, presenting contemporary concepts and applications with a focus on integration for smart operation and grids. The authors address the main concepts and techniques of active management of smart electrical distribution system operation, including state estimation, self healing, volt-var control, protection systems, operations planning, and commercial and emergency dispatch. From each topic, an overview of concepts are given together with examples related to the management of these systems, thus providing a valuable resource for the design, implementation and management of efficient and truly sustainable smart systems.

IoT Applications, Security Threats, and Countermeasures Padmalaya Nayak,Niranjan Ray,P. Ravichandran,2021-09-02 Addresses the complete wireless technologies like Radio Frequency (RF), Wi-Fi, SigFox, Zigbee, Light Communication like Li-Fi, Infrared, Bluetooth, etc Covers Block-Chain related self-adaptive cyber-physical security systems Based on the latest technologies, and covering the major challenges like Machine Learning, Evolutionary Computing, Sensor Networks, Ad Hoc Networks, Security Issues, and Advances in IoT Discusses security and privacy issues through IoT ecosystem and its implications to the real world Includes data sharing, security, connectivity solutions in IoT applications Examines privacy issues and challenges related to Cloud Computing, Fog Computer, and Edge Computing technologies in IoT

Research Awards Index ,1978

Public Transport Planning with Smart Card Data Fumitaka Kurauchi,Jan-Dirk Schmöcker,2017-02-17 Collecting fares through smart cards is becoming standard in most advanced public transport networks of major cities around the world. Travellers value their convenience and operators the reduced money handling fees. Electronic tickets also make it easier to integrate fare systems, to create complex time and space differentiated fare systems, and to provide incentives to specific target groups. A less-utilised benefit is the data collected through smart cards. Records, even if anonymous, provide for a much better understanding of passengers' travel behaviour as current literature shows. This information can also be used for better service planning. Public Transport Planning with Smart Card Data handles three major topics: how passenger behaviour can be estimated using smart card data, how smart card data can be

combined with other trip databases, and how the public transport service level can be better evaluated if smart card data is available. The book discusses theory as well as applications from cities around the world and will be of interest to researchers and practitioners alike who are interested in the state-of-the-art as well as future perspectives that smart card data will bring.

Smart Factory Navigator Lukas Budde,Roman Hänggi,Thomas Friedli,Adrian Rüedy,2022-12-06 The digitization of factories promises great potential benefits. The implementation of the various technologies for the smart factory is extremely complex, requires new competencies and necessitates significant investments. The question is: How can an industrial company successfully manage this transformation? For this purpose, more than 500 published use cases were screened. These could be categorized into 44 relevant use cases, which we describe in detail in the book. Our research has also shown that strategy and goal orientation must be at the core of the change. Furthermore, the combination of employee knowledge and use of technology is central to success. This led to the creation of our smart factory implementation approach. In various research and consulting projects we were able to apply this process and realize successful implementations in different companies. This 7-step process starts with the selection of promising use cases, followed by a prioritization step, adaptation to the company-specific context and a detailing of the information needs for the different management levels. Stringent project management helps the user achieve positive results that can then be rolled out on a global scale. This process is not only applicable to the actual factory but can also be used to design smart services for the factory of tomorrow. Content Smart factory definition and characterization · The smart factory navigator · The smart factory framework · Description of the 44 use cases for the smart factory · Technology mapping in relation to the 44 use cases · Smart factory implementation process · Smart services for the smart factory

Elegant Objects Yegor Bugayenko,2017-04-18 TL;DR Compound variable names, validators, private static literals, configurable objects, inheritance, annotations, MVC, dependency injection containers, reflection, ORM and even algorithms are our enemies.

Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications Tran Khanh Dang,Josef Küng,Tai M. Chung,2022-11-19 This book constitutes the refereed proceedings of the 9th International Conference on Future Data and Security Engineering, FDSE 2022, held in Ho Chi Minh City, Vietnam, during November 23–25, 2022. The 41 full papers(including 4 invited keynotes) and 12 short papers included in this book were carefully reviewed and selected from 170 submissions. They were organized in topical sections as follows: invited keynotes; big data analytics and distributed systems; security and privacy engineering; machine learning and artificial intelligence for security and privacy; smart city and industry 4.0 applications; data analytics and healthcare systems; and security and data engineering.

Data Lake for Enterprises Tomcy John,Pankaj Misra,2017-05-31 A practical guide to implementing your enterprise data lake using Lambda Architecture as the base About This Book Build a full-fledged data lake for your organization with popular big data technologies using the Lambda architecture as the base Delve into the big data technologies required to meet modern day business strategies A highly practical guide to implementing enterprise data lakes with lots of examples and real-world use-cases Who This Book Is For Java developers and architects who would like to implement a data lake for their enterprise will find this book useful. If you want to get hands-on experience with the Lambda Architecture and big data technologies by implementing a practical solution using these technologies, this book will also help you. What You Will Learn Build an enterprise-level data lake using the relevant big data technologies

Understand the core of the Lambda architecture and how to apply it in an enterprise Learn the technical details around Sqoop and its functionalities Integrate Kafka with Hadoop components to acquire enterprise data Use flume with streaming technologies for stream-based processing Understand stream-based processing with reference to Apache Spark Streaming Incorporate Hadoop components and know the advantages they provide for enterprise data lakes Build fast, streaming, and high-performance applications using ElasticSearch Make your data ingestion process consistent across various data formats with configurability Process your data to derive intelligence using machine learning algorithms In Detail The term Data Lake has recently emerged as a prominent term in the big data industry. Data scientists can make use of it in deriving meaningful insights that can be used by businesses to redefine or transform the way they operate. Lambda architecture is also emerging as one of the very eminent patterns in the big data landscape, as it not only helps to derive useful information from historical data but also correlates real-time data to enable business to take critical decisions. This book tries to bring these two important aspects — data lake and lambda architecture—together. This book is divided into three main sections. The first introduces you to the concept of data lakes, the importance of data lakes in enterprises, and getting you up-to-speed with the Lambda architecture. The second section delves into the principal components of building a data lake using the Lambda architecture. It introduces you to popular big data technologies such as Apache Hadoop, Spark, Sqoop, Flume, and ElasticSearch. The third section is a highly practical demonstration of putting it all together, and shows you how an enterprise data lake can be implemented, along with several real-world use-cases. It also shows you how other peripheral components can be added to the lake to make it more efficient. By the end of this book, you will be able to choose the right big data technologies using the lambda architectural patterns to build your enterprise data lake. Style and approach The book takes a pragmatic approach, showing ways to leverage big data technologies and lambda architecture to build an enterprise-level data lake.

Public Health Informatics and Information Systems J.A. Magnuson, Brian E. Dixon, 2020-07-17 This 3rd edition of a classic textbook examines the context and background of public health informatics, explores the technology and science underlying the field, discusses challenges and emerging solutions, reviews many key public health information systems, and includes practical, case-based studies to guide the reader through the topic. The editors have expanded the text into new areas that have become important since publication of the previous two editions due to changing technologies and needs in the field, as well as updating and augmenting much of the core content. The book contains learning objectives, overviews, future directions, and review questions to assist readers to engage with this vast topic. The Editors and their team of well-known contributors have built upon the foundation established by the previous editions to provide the reader with a comprehensive and forward-looking review of public health informatics. The breadth of material in Public Health Informatics and Information Systems, 3rd edition makes it suitable for both undergraduate and graduate coursework in public health informatics, enabling instructors to select chapters that best fit their students' needs.

FPGA Prototyping by Verilog Examples Pong P. Chu, 2011-09-20 FPGA Prototyping Using Verilog Examples will provide you with a hands-on introduction to Verilog synthesis and FPGA programming through a “learn by doing” approach. By following the clear, easy-to-understand templates for code development and the numerous practical examples, you can quickly develop and simulate a sophisticated digital circuit, realize it on a prototyping device, and verify the operation of its physical implementation. This introductory text that will provide you with a solid foundation, instill confidence with rigorous examples for complex systems and prepare you for future development tasks.

Proceedings of the 3rd International Conference on Intelligent and Interactive Computing 2021 Sarni Suhaila Rahim, Siti Nurul Mahfuzah

Mohamad, 2021-09-01 The 3rd International Conference on Intelligent and Interactive Computing 2021 (IIC 2021) was held virtually at Universiti Teknikal Malaysia Melaka (UTeM), Melaka, Malaysia, on 9 September 2021. The event was jointly organized by the Department of Interactive Media and Department of Intelligent Computing and Analytics, Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka (UTeM), with the theme 'Empowering the World with Intelligent and Immersive Computing towards Smart Solutions'. This open access e-proceedings contains a compilation of 38 selected papers from the IIC 2021. The technical committees received a great response for submissions from various area including computational intelligence, data analytics, robotics and automation, multimedia and immersive technologies, education 4.0 and others. We hope that this proceeding will serve as a valuable reference for researchers. The event has achieved its aim which is to gather academic scholars and industry practitioners to share valuable knowledge and expertise in related disciplines. Moreover, it is hoped that this conference has opened up opportunities to explore recent advancements and challenges on selected research discipline. As the editors-in-chief, we are grateful and would like to convey our sincerest gratitude to the fellow review members for their effort in reviewing the submitted papers for this proceeding. We are thankful to all the authors for revising their papers according to the proceeding requirements. Also, we would like to express our thoughtful appreciation to the organizer of the IIC 2021.

Motion Control Report Architecture Technology Corpor, 2016-01-22 Please note this is a short discount publication. In today's manufacturing environment, Motion Control plays a major role in virtually every project. The Motion Control Report provides a comprehensive overview of the technology of Motion Control: * Design Considerations * Technologies * Methods to Control Motion * Examples of Motion Control in Systems * A Detailed Vendors List

The Once-Only Principle Robert Krimmer, Andriana Prentza, Szymon Mamrot, 2021-07-02 This open access State-of-the-Art Survey describes and documents the developments and results of the Once-Only Principle Project (TOOP). The Once-Only Principle (OOP) is part of the seven underlying principles of the eGovernment Action Plan 2016-2020. It aims to make the government more effective and to reduce administrative burdens by asking citizens and companies to provide certain standard information to the public authorities only once. The project was horizontal and policy-driven with the aim of showing that the implementation of OOP in a cross-border and cross-sector setting is feasible. The book summarizes the results of the project from policy, organizational, architectural, and technical points of view.

Good Charts Scott Berinato, 2016-04-26 *Dataviz—the new language of business* A good visualization can communicate the nature and potential impact of information and ideas more powerfully than any other form of communication. For a long time “dataviz” was left to specialists—data scientists and professional designers. No longer. A new generation of tools and massive amounts of available data make it easy for anyone to create visualizations that communicate ideas far more effectively than generic spreadsheet charts ever could. What's more, building good charts is quickly becoming a need-to-have skill for managers. If you're not doing it, other managers are, and they're getting noticed for it and getting credit for contributing to your company's success. In *Good Charts*, dataviz maven Scott Berinato provides an essential guide to how visualization works and how to use this new language to impress and persuade. *Dataviz* today is where spreadsheets and word processors were in the early 1980s—on the cusp of changing how we work. Berinato lays out a system for thinking visually and building better charts through a process of talking, sketching, and prototyping. This book is much more than a set of static rules for making visualizations. It taps

into both well-established and cutting-edge research in visual perception and neuroscience, as well as the emerging field of visualization science, to explore why good charts (and bad ones) create “feelings behind our eyes.” Along the way, Berinato also includes many engaging vignettes of dataviz pros, illustrating the ideas in practice. Good Charts will help you turn plain, uninspiring charts that merely present information into smart, effective visualizations that powerfully convey ideas.

IBM i 6.1 Technical Overview Jim Cook,Ahmed Mansour,Giancarlo Omati,Ana Flavia Pavan,Mark Roy,IBM Redbooks,2009-12-16 This IBM® Redbooks® publication introduces a technical overview of the main new features, functions and enhancements available in IBM i 6.1 (formerly called i5/OS® V6R1). It gives a summary and brief explanation of new capabilities and what has changed in the operating system, and also discusses many of the licensed programs and application development tools associated with IBM i. Many other new and enhanced functions are described, such as virtualization of storage, security, Java™ performance, improved performance with IBM System Storage™ devices, backup and recovery, including base IBM i, Backup, Recovery and Media Services (BRMS). The book introduces the PowerHATM product, IBM Systems Director-based system management and an easier Web enablement. The information provided in this book will be useful for customers, Business Partners, and IBM service professionals involved with planning, supporting, upgrading, and implementing IBM i 6.1 solutions.

Data Mining: Concepts and Techniques Jiawei Han,Micheline Kamber,Jian Pei,2011-06-09 Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

Technology Media Source ,2001

Biomedical Index to PHS-supported Research: pt. A. Subject access A-H ,1992

Creativity and Data Marketing Becky Wang,2017-01-03 The world is moving towards universal connectivity at a dizzying rate; underpinning this complex system of incessant transaction, connection and digital experience is an infrastructure that generates a trail of data. This trail not only tells us about human behaviour, but provides vital insights into market dynamics, consumer behaviour, as well as the relationships we value and the culture we live in.

Creativity and Data Marketing helps marketers access this data, find meaning in it and leverage it creatively to gain a competitive advantage. Creativity and Data Marketing addresses the need to analyse data creatively, and in particular how balancing tangible insights with creative market influence can maximise business innovation and results. The book clarifies where businesses can improve existing infrastructure, processes and activities, as well as finding new addressable markets ready to validate or rethink market demand. By identifying how and why a consumer interacts with touch points beyond paid media, for example forums, blog content, native advertising and word-of-mouth, Becky Wang presents a creativity and data blueprint on how businesses can make lucrative steps forward to innovate their products, services and communication strategies, laying the groundwork for long-term results. Online resources include bonus content covering analytics methods, evolving research, data platforms and more, and a creative brief template.

Adopting the Tune of Expression: An Emotional Symphony within **01Data Smart Systems**

In a world eaten by monitors and the ceaseless chatter of fast connection, the melodic beauty and mental symphony developed by the prepared word frequently fade into the back ground, eclipsed by the relentless noise and distractions that permeate our lives. But, located within the pages of **01Data Smart Systems** a stunning literary value filled with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, this charming masterpiece conducts viewers on a mental trip, skillfully unraveling the hidden melodies and profound influence resonating within each cautiously constructed phrase. Within the depths of this touching evaluation, we shall investigate the book is key harmonies, analyze its enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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01Data Smart Systems Introduction

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resin is drawn into the resulting cavity

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