

Big Data Fundamentals

Concepts, Drivers & Techniques

Co-authored by Best-Selling Author Thomas Erl

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Service Technology Series

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Big Data Fundamentals Thomas Erl, Wajid Khattak, Paul Buhler, 2015-12-29 This text should be required reading for everyone in contemporary business Peter Woodhull CEO Modus21 The one book that clearly describes and links Big Data concepts to business utility Dr Christopher Starr PhD Simply this is the best Big Data book on the market Sam Rostam Cascadian IT Group one of the most contemporary approaches I've seen to Big Data fundamentals Joshua M Davis PhD The Definitive Plain English Guide to Big Data for Business and Technology Professionals Big Data Fundamentals provides a pragmatic no nonsense introduction to Big Data Best selling IT author Thomas Erl and his team clearly explain key Big Data concepts theory and terminology as well as fundamental technologies and techniques All coverage is supported with case study examples and numerous simple diagrams The authors begin by explaining how Big Data can propel an organization forward by solving a spectrum of previously intractable business problems Next they demystify key analysis techniques and technologies and show how a Big Data solution environment can be built and integrated to offer competitive advantages Discovering Big Data's fundamental concepts and what makes it different from previous forms of data analysis and data science Understanding the business motivations and drivers behind Big Data adoption from operational improvements through innovation Planning strategic business driven Big Data initiatives Addressing considerations such as data management governance and security Recognizing the 5 V characteristics of datasets in Big Data environments volume velocity variety veracity and value Clarifying Big Data's relationships with OLTP OLAP ETL data warehouses and data marts Working with Big Data in structured unstructured semi structured and metadata formats Increasing value by integrating Big Data resources with corporate performance monitoring Understanding how Big Data leverages distributed and parallel processing Using NoSQL and other technologies to meet Big Data's distinct data processing requirements Leveraging statistical approaches of quantitative and qualitative analysis Applying computational analysis methods including machine learning

Mobilität in Zeiten der Veränderung Heike Proff, 2019-04-16 Der Tagungsband zum 10 Wissenschaftsforum Mobilität an der Universität Duisburg Essen im Juni 2018 untersucht das Rahmenthema Mobility in Times of Change Past Present Future und fokussiert den bergang von der alten Auto Mobilität in eine neue Mobilität Die Autorinnen und Autoren geben nicht nur einen Rückblick auf die Themen des Mobilitätsforums in den vergangenen 10 Jahren sondern wagen einen Ausblick auf die kommenden 10 Jahre In den Plenumsvorträgen Präsentationen und Posterbeiträge wird somit der Bogen von der Mobilität Ende des 19 Jahrhunderts bis in die Zukunft geschlagen

Emerging Research in Data Engineering Systems and Computer Communications P. Venkata Krishna, Mohammad S. Obaidat, 2020-02-10 This book gathers selected papers presented at the 2nd International Conference on Computing Communications and Data Engineering held at Sri Padmavati Mahila Visvavidyalayam Tirupati India from 1 to 2 Feb 2019 Chiefly discussing major issues and challenges in

data engineering systems and computer communications the topics covered include wireless systems and IoT machine learning optimization control statistics and social computing

IEEE Technology and Engineering Management Society Body of Knowledge (TEMSBOK) Elif Kongar, Marina Dabić, Celia Desmond, Michael Condry, Sudeendra Koushik, Roberto Saracco, 2023-10-10 IEEE Technology and Engineering Management Society Body of Knowledge TEMSBOK IEEE TEMS Board of Directors approved body of knowledge dedicated to technology and engineering management The IEEE Technology and Engineering Management Society Body of Knowledge TEMSBOK establishes a set of common practices for technology and engineering management acts as a reference for entrepreneurs establishes a basis for future official certifications and summarizes the literature on the management field in order to publish reference documentation for new initiatives The editors have used a template approach with authors that instructed them on how to introduce their manuscript how to organize the technology and area fundamentals the managing approach techniques and benefits realistic examples that show the application of concepts recommended best use focusing on how to identify the most adequate approach to typical cases with a summary and conclusion of each section plus a list of references for further study The book is structured according to the following area knowledge chapters business analysis technology adoption innovation entrepreneurship project management digital disruption digital transformation of industry data science and management and ethics and legal issues Specific topics covered include Market requirement analysis business analysis for governance planning financial analysis evaluation and control and risk analysis of market opportunities Leading and managing working groups optimizing group creation and evolution enterprise agile governance and leading agile organizations and working groups Marketing plans for new products and services risk analysis and challenges for entrepreneurs and procurement and collaboration Projects portfolios and programs economic constraints and roles integration management and control of change and project plan structure The IEEE Technology and Engineering Management Society Body of Knowledge TEMSBOK will appeal to engineers graduates and professionals who wish to prepare for challenges in initiatives using new technologies as well as managers who are responsible for conducting business involving technology and engineering

Innovative Logistics Services and Sustainable Lifestyles Ani Melkonyan, Klaus Krumme, 2019-02-26 This edited volume aims to describe the transformation of supply chain management SCM and logistics services by merging sustainable logistics SCM sustainable consumption and lifestyle research This assessment of the transformation potential serves the development of sustainable business models and optimized decision making systems for achieving sustainable economic value creation within a green economy In 5 sections the volume takes a unique transdisciplinary approach to assess sustainable business practices within SCM and the logistics sector and to understand the interactions between logistics services and consumer lifestyles while creating transparency within the decision making process This book will be of particular interest to academics policymakers planners and politicians Section 1 introduces readers to the importance of blended research and innovation between

sustainable SCM and consumer lifestyles for transformation towards a green economy Section 2 addresses the question of how trends and developments in consumption behavior and lifestyles influence the development of sustainable logistics Section 3 discusses the transformation potential towards sustainable logistics using the food sector as an example Section 4 focuses on strategic decision making in SCM and how long term improvements of sustainability performance can be achieved Section 5 concludes with policy recommendations as well as research and innovation perspectives for future sustainable development with SCM and logistics

Cloud Computing Sandeep Bhowmik,2017-07-04 Written in a tutorial style this comprehensive guide follows a structured approach explaining cloud techniques models and platforms Popular cloud services such as Amazon Google and Microsoft Azure are explained in the text The security risks and challenges of cloud computing are discussed in detail with useful examples Emerging trends including mobile cloud computing and internet of things are discussed in the book for the benefit of the readers Numerous review questions multiple choice exercises and case studies facilitate enhanced understanding This textbook is ideal for undergraduate and graduate students of computer science engineering and information technology

Big Data Computing Tanvir Habib Sardar,Bishwajeet Kumar Pandey,2024-02-27 This book primarily aims to provide an in depth understanding of recent advances in big data computing technologies methodologies and applications along with introductory details of big data computing models such as Apache Hadoop MapReduce Hive Pig Mahout in memory storage systems NoSQL databases and big data streaming services such as Apache Spark Kafka and so forth It also covers developments in big data computing applications such as machine learning deep learning graph processing and many others Features Provides comprehensive analysis of advanced aspects of big data challenges and enabling technologies Explains computing models using real world examples and dataset based experiments Includes case studies quality diagrams and demonstrations in each chapter Describes modifications and optimization of existing technologies along with the novel big data computing models Explores references to machine learning deep learning and graph processing This book is aimed at graduate students and researchers in high performance computing data mining knowledge discovery and distributed computing

Traffic Mining Applied to Police Activities Fabio Leuzzi,Stefano Ferilli,2018-03-21 This book presents high quality original contributions on the development of automatic traffic analysis systems that are able to not only anticipate traffic scenarios but also understand the behavior of road users vehicles bikes trucks etc in order to provide better traffic management prevent accidents and potentially identify criminal behaviors Topics also include traffic surveillance and vehicle accident analysis using formal concept analysis convolutional and recurrent neural networks unsupervised learning and process mining The content is based on papers presented at the 1st Italian Conference for the Traffic Police TRAP which was held in Rome in October 2017 This conference represents a targeted response to the challenges facing the police in connection with managing massive traffic data finding patterns from historical datasets and analyzing complex traffic phenomena in order to anticipate potential criminal behaviors The book will appeal to

researchers practitioners and decision makers interested in traffic monitoring and analysis traffic modeling and simulation mobility and social data mining as well as members of the police Big Data and Decision-Making Anna Visvizi,Orlando Troisi,Mara Grimaldi,2023-01-30 Big Data and Decision Making Applications and Uses in the Public and Private Sector breaks down the concept of big data to reveal how it has become integrated into the fabric of both public and private domains as well as how its value can ultimately be exploited Big Data in Healthcare Pouria Amirian,Trudie Lang,Francois van Loggerenberg,2017-09-18 This book reviews a number of issues including Why data generated from POC machines are considered as Big Data What are the challenges in storing managing extracting knowledge from data from POC devices Why is it inefficient to use traditional data analysis with big data What are the solutions for the mentioned issues and challenges What type of analytics skills are required in health care What big data technologies and tools can be used efficiently with data generated from POC devices This book shows how it is feasible to store vast numbers of anonymous data and ask highly specific questions that can be performed in real time to give precise and meaningful evidence to guide public health policy

Business Analytics Thomas W. Jackson,Steven Lockwood,2018-09-21 This innovative new textbook co authored by an established academic and a leading practitioner is the first to bring together issues of cloud computing business intelligence and big data analytics in order to explore how organisations use cloud technology to analyse data and make decisions In addition to offering an up to date exploration of key issues relating to data privacy and ethics information governance and the future of analytics the text describes the options available in deploying analytic solutions to the cloud and draws on real world international examples from companies such as Rolls Royce Lego Volkswagen and Samsung Combining academic and practitioner perspectives that are crucial to the understanding of this growing field Business Analytics acts an ideal core text for undergraduate postgraduate and MBA modules on Big Data Business and Data Analytics and Business Intelligence as well as functioning as a supplementary text for modules in Marketing Analytics The book is also an invaluable resource for practitioners and will quickly enable the next generation of Information Builders within organisations to understand innovative cloud based analytic solutions SOA Design Patterns Thomas Erl,2008-12-31 In cooperation with experts and practitioners throughout the SOA community best selling author Thomas Erl brings together the de facto catalog of design patterns for SOA and service orientation More than three years in development and subjected to numerous industry reviews the 85 patterns in this full color book provide the most successful and proven design techniques to overcoming the most common and critical problems to achieving modern day SOA Through numerous examples individually documented pattern profiles and over 400 color illustrations this book provides in depth coverage of Patterns for the design implementation and governance of service inventories collections of services representing individual service portfolios that can be independently modeled designed and evolved Patterns specific to service level architecture which pertain to a wide range of design areas including contract design security legacy encapsulation reliability scalability and a variety of implementation and governance

issues Service composition patterns that address the many aspects associated with combining services into aggregate distributed solutions including topics such as runtime messaging and message design inter service security controls and transformation Compound patterns such as Enterprise Service Bus and Orchestration and recommended pattern application sequences that establish foundational processes The book begins by establishing SOA types that are referenced throughout the patterns and then form the basis of a final chapter that discusses the architectural impact of service oriented computing in general These chapters bookend the pattern catalog to provide a clear link between SOA design patterns the strategic goals of service oriented computing different SOA types and the service orientation design paradigm This book series is further supported by a series of resources sites including soabooks.com soaspecs.com soapatterns.org soamag.com and soaposters.com

Big Data Balamurugan Balusamy, Nandhini Abirami R, Seifedine Kadry, Amir H. Gandomi, 2021-04-13 Learn Big Data from the ground up with this complete and up to date resource from leaders in the field Big Data Concepts Technology and Architecture delivers a comprehensive treatment of Big Data tools terminology and technology perfectly suited to a wide range of business professionals academic researchers and students Beginning with a fulsome overview of what we mean when we say Big Data the book moves on to discuss every stage of the lifecycle of Big Data You ll learn about the creation of structured unstructured and semi structured data data storage solutions traditional database solutions like SQL data processing data analytics machine learning and data mining You ll also discover how specific technologies like Apache Hadoop SQOOP and Flume work Big Data also covers the central topic of big data visualization with Tableau and you ll learn how to create scatter plots histograms bar line and pie charts with that software Accessibly organized Big Data includes illuminating case studies throughout the material showing you how the included concepts have been applied in real world settings Some of those concepts include The common challenges facing big data technology and technologists like data heterogeneity and incompleteness data volume and velocity storage limitations and privacy concerns Relational and non relational databases like RDBMS NoSQL and NewSQL databases Virtualizing Big Data through encapsulation partitioning and isolating as well as big data server virtualization Apache software including Hadoop Cassandra Avro Pig Mahout Oozie and Hive The Big Data analytics lifecycle including business case evaluation data preparation extraction transformation analysis and visualization Perfect for data scientists data engineers and database managers Big Data also belongs on the bookshelves of business intelligence analysts who are required to make decisions based on large volumes of information Executives and managers who lead teams responsible for keeping or understanding large datasets will also benefit from this book

Enterprise Big Data Engineering, Analytics, and Management Atzmueller, Martin, Oussena, Samia, Roth-Berghofer, Thomas, 2016-06-01 The significance of big data can be observed in any decision making process as it is often used for forecasting and predictive analytics Additionally big data can be used to build a holistic view of an enterprise through a collection and analysis of large data sets retrospectively As the data deluge deepens new methods for

analyzing comprehending and making use of big data become necessary Enterprise Big Data Engineering Analytics and Management presents novel methodologies and practical approaches to engineering managing and analyzing large scale data sets with a focus on enterprise applications and implementation Featuring essential big data concepts including data mining artificial intelligence and information extraction this publication provides a platform for retargeting the current research available in the field Data analysts IT professionals researchers and graduate level students will find the timely research presented in this publication essential to furthering their knowledge in the field

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