

BIG DATA DATABASES



Big Data Database Solutions

**Álvaro Rocha, Hojjat Adeli, Luís Paulo
Reis, Sandra Costanzo**



Big Data Database Solutions:

BigData Analytics: Solution Or Resolution? Binayaka Mishra,2017-06-26 In 1997 NASA researchers Michael Cox and David Ellsworth publish Application controlled demand paging for out of core visualization in the Proceedings of the IEEE 8th conference on Visualization They start the article with Visualization provides an interesting challenge for computer systems data sets are generally quite large taxing the capacities of main memory local disk and even remote disk We call this the problem of big data When data sets do not fit in main memory in core or when they do not fit even on local disk the most common solution is to acquire more resources It is the first article in the ACM digital library to use the term big data Michael Lesk publishes How much information is there in the world Lesk concludes that There may be a few thousand petabytes of information all told and the production of tape and disk will reach that level by the year 2000 So in only a few years a we will be able to save everything no information will have to be thrown out and b the typical piece of information will never be looked at by a human being

Open Source Software for Statistical Analysis of Big Data: Emerging Research and Opportunities Segall, Richard S.,Niu, Gao,2020-02-21 With the development of computing technologies in today s modernized world software packages have become easily accessible Open source software specifically is a popular method for solving certain issues in the field of computer science One key challenge is analyzing big data due to the high amounts that organizations are processing Researchers and professionals need research on the foundations of open source software programs and how they can successfully analyze statistical data Open Source Software for Statistical Analysis of Big Data Emerging Research and Opportunities provides emerging research exploring the theoretical and practical aspects of cost free software possibilities for applications within data analysis and statistics with a specific focus on R and Python Featuring coverage on a broad range of topics such as cluster analysis time series forecasting and machine learning this book is ideally designed for researchers developers practitioners engineers academicians scholars and students who want to more fully understand in a brief and concise format the realm and technologies of open source software for big data and how it has been used to solve large scale research problems in a multitude of disciplines

Security, Privacy, and Forensics Issues in Big Data Joshi, Ramesh C.,Gupta, Brij B.,2019-08-30 With the proliferation of devices connected to the internet and connected to each other the volume of data collected stored and processed is increasing every day which brings new challenges in terms of information security As big data expands with the help of public clouds traditional security solutions tailored to private computing infrastructures and confined to a well defined security perimeter such as firewalls and demilitarized zones DMZs are no longer effective New security functions are required to work over the heterogenous composition of diverse hardware operating systems and network domains Security Privacy and Forensics Issues in Big Data is an essential research book that examines recent advancements in big data and the impact that these advancements have on information security and privacy measures needed for these networks Highlighting a range of topics including cryptography data analytics and threat

detection this is an excellent reference source for students software developers and engineers security analysts IT consultants academicians researchers and professionals

Big Data Infrastructure Technologies for Data Analytics Yuri Demchenko, Juan J. Cuadrado-Gallego, Oleg Chertov, Marharyta Aleksandrova, 2024-10-25 This book provides a comprehensive overview and introduction to Big Data Infrastructure technologies existing cloud based platforms and tools for Big Data processing and data analytics combining both a conceptual approach in architecture design and a practical approach in technology selection and project implementation Readers will learn the core functionality of major Big Data Infrastructure components and how they integrate to form a coherent solution with business benefits Specific attention will be given to understanding and using the major Big Data platform Apache Hadoop ecosystem its main functional components MapReduce HBase Hive Pig Spark and streaming analytics The book includes topics related to enterprise and research data management and governance and explains modern approaches to cloud and Big Data security and compliance The book covers two knowledge areas defined in the EDISON Data Science Framework EDSF Data Science Engineering and Data Management and Governance and can be used as a textbook for university courses or provide a basis for practitioners for further self study and practical use of Big Data technologies and competent evaluation and implementation of practical projects in their organizations

Cloud Computing and Big Data Marcelo Naiouf, Franco Chichizola, Enzo Rucci, 2019-07-26 This book constitutes the revised selected papers of the 7th International Conference on Cloud Computing and Big Data JCC Big Data and data intelligence mobile computing

Information Systems Marinos Themistocleous, Paulo Rupino da Cunha, 2019-01-11 This book constitutes selected papers from the 15th European Mediterranean and Middle Eastern Conference EMCIS 2018 held in Limassol Cyprus in October 2018 EMCIS is dedicated to the definition and establishment of Information Systems as a discipline of high impact for the methodical community and IS professionals focusing on approaches that facilitate the identification of innovative research of significant relevance to the IS discipline The 34 full and 8 short papers presented in this volume were carefully reviewed and selected from a total of 108 submissions They were organized in topical sections named blockchain technology and applications big data and analytics cloud computing digital services and social media e government healthcare information systems IT governance and management and organizational issues in information systems

Programming Big Data Applications: Scalable Tools And Frameworks For Your Needs Domenico Talia, Paolo Trunfio, Fabrizio Marozzo, Loris Belcastro, Riccardo Cantini, Alessio Orsino, 2024-05-03 In the age of the Internet of Things and social media platforms huge amounts of digital data are generated by and collected from many sources including sensors mobile devices wearable trackers and security cameras These data commonly referred to as big data are challenging current storage processing and analysis capabilities New models languages systems and algorithms continue to be developed to effectively collect store analyze and learn from big data Programming Big Data Applications introduces and discusses models programming frameworks and algorithms to process and analyze large amounts of data In

particular the book provides an in depth description of the properties and mechanisms of the main programming paradigms for big data analysis including MapReduce workflow BSP message passing and SQL like Through programming examples it also describes the most used frameworks for big data analysis like Hadoop Spark MPI Hive and Storm Each of the different systems is discussed and compared highlighting their main features their diffusion both within their community of developers and among users and their main advantages and disadvantages in implementing big data analysis applications *Managing and Processing Big Data in Cloud Computing* Kannan, Rajkumar, 2016-01-07 Big data has presented a number of opportunities across industries With these opportunities come a number of challenges associated with handling analyzing and storing large data sets One solution to this challenge is cloud computing which supports a massive storage and computation facility in order to accommodate big data processing *Managing and Processing Big Data in Cloud Computing* explores the challenges of supporting big data processing and cloud based platforms as a proposed solution Emphasizing a number of crucial topics such as data analytics wireless networks mobile clouds and machine learning this publication meets the research needs of data analysts IT professionals researchers graduate students and educators in the areas of data science computer programming and IT development *Research Anthology on Privatizing and Securing Data Management* Association, Information Resources, 2021-04-23 With the immense amount of data that is now available online security concerns have been an issue from the start and have grown as new technologies are increasingly integrated in data collection storage and transmission Online cyber threats cyber terrorism hacking and other cybercrimes have begun to take advantage of this information that can be easily accessed if not properly handled New privacy and security measures have been developed to address this cause for concern and have become an essential area of research within the past few years and into the foreseeable future The ways in which data is secured and privatized should be discussed in terms of the technologies being used the methods and models for security that have been developed and the ways in which risks can be detected analyzed and mitigated The *Research Anthology on Privatizing and Securing Data* reveals the latest tools and technologies for privatizing and securing data across different technologies and industries It takes a deeper dive into both risk detection and mitigation including an analysis of cybercrimes and cyber threats along with a sharper focus on the technologies and methods being actively implemented and utilized to secure data online Highlighted topics include information governance and privacy cybersecurity data protection challenges in big data security threats and more This book is essential for data analysts cybersecurity professionals data scientists security analysts IT specialists practitioners researchers academicians and students interested in the latest trends and technologies for privatizing and securing data **Big Data Application Architecture Q&A** Nitin Sawant, Himanshu Shah, 2014-01-24 *Big Data Application Architecture Pattern Recipes* provides an insight into heterogeneous infrastructures databases and visualization and analytics tools used for realizing the architectures of big data solutions Its problem solution approach helps in selecting the right architecture to solve the problem at hand In

the process of reading through these problems you will learn harness the power of new big data opportunities which various enterprises use to attain real time profits Big Data Application Architecture Pattern Recipes answers one of the most critical questions of this time how do you select the best end to end architecture to solve your big data problem The book deals with various mission critical problems encountered by solution architects consultants and software architects while dealing with the myriad options available for implementing a typical solution trying to extract insight from huge volumes of data in real time and across multiple relational and non relational data types for clients from industries like retail telecommunication banking and insurance The patterns in this book provide the strong architectural foundation required to launch your next big data application The architectures for realizing these opportunities are based on relatively less expensive and heterogeneous infrastructures compared to the traditional monolithic and hugely expensive options that exist currently This book describes and evaluates the benefits of heterogeneity which brings with it multiple options of solving the same problem evaluation of trade offs and validation of fitness for purpose of the solution **Cloud Essentials** Kalani Kirk Hausman,Susan L.

Cook,Telmo Sampaio,2013-05-02 CompTIA Authorized courseware for the Cloud Essentials Exam CLO 001 What better way to get up to speed on cloud computing than with this new book in the popular Sybex Essentials series Cloud Essentials covers the basics of cloud computing and its place in the modern enterprise Explore public and private clouds contrast the as a service models for PaaS SaaS IaaS or XaaS platforms plan security and more In addition the book covers the exam objectives for the both the CompTIA Cloud Essentials Exam CLO 001 exam and the EXIN Cloud Computing Foundation EX0 116 certification exams and includes suggested exercises and review questions to reinforce your learning Gets you up to speed on the hottest trend in IT cloud computing Prepares IT professionals and those new to the cloud for and cover all of the CompTIA Cloud Essentials and EXIN Cloud Computing Foundation exam objectives Serves as CompTIA Authorized courseware for the exam Examines various models for cloud computing implementation including public and private clouds Contrasts as a service models for platform PaaS software SaaS infrastructure IaaS and other technologies XaaS Identifies strategies for implementation on tight budgets and goes into planning security and service management Get a through grounding in cloud basics and prepare for your cloud certification exam with Cloud Essentials Enterprise Architecture for Strategic Management of Modern IT Solutions Tiko Iyamu,2022-03-15 The popularity of enterprise architecture EA has increased in the last two decades in both business and academic domains Despite the cumulative interest from all sectors the implementation and practice of EA have been entangled with numerous challenges and complexities Consequently some organisations continue to theorise the concept which has ramifications on practice and ROI This has led to many studies that have been conducted to understand the complexities impacting the implementation and practice of EA in organisations Yet the trajectory of some convolutions remain a mystery in many quarters This attributes to the struggle to articulate the value of EA in many environments Hence many organisations find it difficult to apply EA for strategic management of modern

information technology IT solutions Enterprise Architecture for strategic Management of Modern IT Solutions provides guidance on how to employ EA in deploying and managing IT solutions from pragmatic and implementable perspectives Until now implementation and practice of EA have been slow despite its growing popularity and interest from all sectors This book employs sociotechnical theories such as actor network theory ANT and structuration theory ST as lenses to examine and explain why and how challenges and complexities exist and derail the implementation or practice of EA in organisations This serves to enable practitioners and readers to gain fresh insights on why the challenges exist and how they can be addressed in creating collaborative capabilities for business enhancement sustainability and competitiveness The book provides detailed insights on how to apply EA for organisational purposes from three main fronts First it explains the implications that lack of understanding of EA have on organisational activities and processes Second it examines the challenges and complexities that hinder the implementation and practice of EA in organisations Third it proposes models and frameworks on how EA can be applied for strategic management of modern IT solutions in organisations Written for postgraduates researchers academics and professionals in the fields of EA IT and information systems this book provides a valuable resource that will enable and enhance implementation and practice of EA including future studies **Databases Illuminated** Catherine M.

Ricardo, Susan D. Urban, 2015-08-24 Databases Illuminated Third Edition Includes Navigate 2 Advantage Access combines database theory with a practical approach to database design and implementation Strong pedagogical features including accessible language real world examples downloadable code and engaging hands on projects and lab exercises create a text with a unique combination of theory and student oriented activities Providing an integrated modern approach to databases Databases Illuminated Third Edition is the essential text for students in this expanding field **Business Intelligence and**

Big Data Celina M. Olszak, 2020-11-17 The twenty first century is a time of intensifying competition and progressive digitization Individual employees managers and entire organizations are under increasing pressure to succeed The questions facing us today are What does success mean Is success a matter of chance and luck or perhaps is success a category that can be planned and properly supported Business Intelligence and Big Data Drivers of Organizational Success examines how the success of an organization largely depends on the ability to anticipate and quickly respond to challenges from the market customers and other stakeholders Success is also associated with the potential to process and analyze a variety of information and the means to use modern information and communication technologies ICTs Success also requires creative behaviors and organizational cleverness from an organization The book discusses business intelligence BI and Big Data BD issues in the context of modern management paradigms and organizational success It presents a theoretically and empirically grounded investigation into BI and BD application in organizations and examines such issues as Analysis and interpretation of the essence of BI and BD Decision support Potential areas of BI and BD utilization in organizations Factors determining success with using BI and BD The role of BI and BD in value creation for organizations Identifying barriers and constraints

related to BI and BD design and implementation The book presents arguments and evidence confirming that BI and BD may be a trigger for making more effective decisions improving business processes and business performance and creating new business The book proposes a comprehensive framework on how to design and use BI and BD to provide organizational success

The Self-Taught Cloud Computing Engineer Dr. Logan Song, 2023-09-22 Transform into a cloud savvy professional by mastering cloud technologies through hands on projects and expert guidance paving the way for a thriving cloud computing career Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Gain a solid foundation in cloud computing with a structured easy to follow guide Develop practical skills across AWS Azure and Google Cloud covering compute storage networking data security and AI Work on real life industrial projects business use cases and personal cloud career development Book Description As cloud computing continues to revolutionize IT professionals face the challenge of keeping up with rapidly evolving technologies This book provides a clear roadmap for mastering cloud concepts developing hands on expertise and obtaining professional certifications making it an essential resource for those looking to advance their careers in cloud computing Starting with a focus on the Amazon cloud you ll be introduced to fundamental AWS cloud services followed by advanced AWS cloud services in the domains of data machine learning and security Next you ll build proficiency in Microsoft Azure cloud and Google Cloud Platform GCP by examining the common attributes of the three clouds differentiating their unique features along with leveraging real life cloud project implementations on these cloud platforms Through hands on projects and real world applications you ll gain the skills needed to work confidently across different cloud platforms The book concludes with career development guidance including certification paths and industry insights to help you succeed in the cloud computing landscape Walking through this cloud computing book you ll systematically establish a robust footing in AWS Azure and GCP and emerge as a cloud savvy professional equipped with cloud certificates to validate your skills What you will learn Develop core skills needed to work with AWS Azure and GCP Gain proficiency in compute storage and networking services across multi cloud and hybrid cloud environments Integrate cloud databases big data and machine learning services in multi cloud environments Design and develop data pipelines encompassing data ingestion storage processing and visualization in the clouds Implement machine learning pipelines in multi cloud environment Secure cloud infrastructure ecosystems with advanced cloud security services Who this book is for This book is ideal for IT professionals looking to transition into cloud computing as well as experienced cloud practitioners seeking to deepen their knowledge Whether you re a beginner with basic computing experience or an industry professional aiming to expand your expertise this comprehensive guide provides the skills and insights needed to excel in the cloud domain

Big Data Analytics Ümit Demirbaga, Gagangeet Singh Aujla, Anish Jindal, Oğuzhan Kalyon, 2024-05-07 This book introduces readers to big data analytics It covers the background to and the concepts of big data big data analytics and cloud computing along with the process of setting up configuring and getting familiar with the big data analytics working

environments in the first two chapters The third chapter provides comprehensive information on big data processing systems from installing these systems to implementing real world data applications along with the necessary codes The next chapter dives into the details of big data storage technologies including their types essentiality durability and availability and reveals their differences in their properties The fifth and sixth chapters guide the reader through understanding configuring and performing the monitoring and debugging of big data systems and present the available commercial and open source tools for this purpose Chapter seven gives information about a trending machine learning Bayesian network a probabilistic graphical model by presenting a real world probabilistic application to understand causal complex and hidden relationships for diagnosis and forecasting in a scalable manner for big data Special sections throughout the eighth chapter present different case studies and applications to help the readers to develop their big data analytics skills using various big data analytics frameworks The book will be of interest to business executives and IT managers as well as university students and their course leaders in fact all those who want to get involved in the big data world

Journey to Become a Google Cloud Machine Learning Engineer Dr. Logan Song, 2022-09-20 Prepare for the GCP ML certification exam along with exploring cloud computing and machine learning concepts and gaining Google Cloud ML skills Key Features A comprehensive yet easy to follow Google Cloud machine learning study guide Explore full spectrum and step by step practice examples to develop hands on skills Read through and learn from in depth discussions of Google ML certification exam questions Book Description This book aims to provide a study guide to learn and master machine learning in Google Cloud to build a broad and strong knowledge base train hands on skills and get certified as a Google Cloud Machine Learning Engineer The book is for someone who has the basic Google Cloud Platform GCP knowledge and skills and basic Python programming skills and wants to learn machine learning in GCP to take their next step toward becoming a Google Cloud Certified Machine Learning professional The book starts by laying the foundations of Google Cloud Platform and Python programming followed by building blocks of machine learning then focusing on machine learning in Google Cloud and finally ends the studying for the Google Cloud Machine Learning certification by integrating all the knowledge and skills together The book is based on the graduate courses the author has been teaching at the University of Texas at Dallas When going through the chapters the reader is expected to study the concepts complete the exercises understand and practice the labs in the appendices and study each exam question thoroughly Then at the end of the learning journey you can expect to harvest the knowledge skills and a certificate What you will learn Provision Google Cloud services related to data science and machine learning Program with the Python programming language and data science libraries Understand machine learning concepts and model development processes Explore deep learning concepts and neural networks Build train and deploy ML models with Google BigQuery ML Keras and Google Cloud Vertex AI Discover the Google Cloud ML Application Programming Interface API Prepare to achieve Google Cloud Professional Machine Learning Engineer certification Who this book is for Anyone from the

cloud computing data analytics and machine learning domains such as cloud engineers data scientists data engineers ML practitioners and engineers will be able to acquire the knowledge and skills and achieve the Google Cloud professional ML Engineer certification with this study guide Basic knowledge of Google Cloud Platform and Python programming is required to get the most out of this book

Reliability Modeling With Computer And Maintenance Applications Syouji Nakamura,Cun Hua Qian,Toshio Nakagawa,2017-06-07 The development of Reliability and Maintenance theory and applications has become major concerns of engineers and managers engaged in order to design and product systems that are highly reliable This book aims to cover the ongoing research topics in computer system reliability analysis reliability applications and maintenance policies so as to provide awareness for those who engage systems design being students technicians or research engineers as a reference guidebook

Services – SERVICES 2019 Yunni Xia,Liang-Jie Zhang,2019-06-18 This book constitutes the refereed proceedings of the 15th World Congress on Services SERVICES 2019 held as part of the Services Conference Federation SCF 2019 in San Diego USA in June 2019 The 11 full papers and 2 short papers presented were carefully reviewed and selected from 14 submissions The papers cover topics in the field of software engineering foundations and applications with a focus on novel approaches for engineering requirements design and architectures testing maintenance and evolution model driven development software processes metrics quality assurance and new software economics models search based software engineering benefiting day to day services sectors and derived through experiences with appreciation to scale pragmatism transparency compliance and or dependability

Trends and Advances in Information Systems and Technologies Álvaro Rocha,Hojjat Adeli,Luís Paulo Reis,Sandra Costanzo,2018-03-23 This book includes a selection of papers from the 2018 World Conference on Information Systems and Technologies WorldCIST 18 held in Naples Italy on March27 29 2018 WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and the challenges of modern information systems and technologies research together with their technological development and applications The main topics covered are A Information and Knowledge Management B Organizational Models and Information Systems C Software and Systems Modeling D Software Systems Architectures Applications and Tools E Multimedia Systems and Applications F Computer Networks Mobility and Pervasive Systems G Intelligent and Decision Support Systems H Big Data Analytics and Applications I Human Computer Interaction J Ethics Computers K Health Informatics L Information Technologies in Education M Information Technologies in Radiocommunications N Technologies for Biomedical Applications

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Big Data Database Solutions Introduction

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