Big Data Analytics Dell Emc

This book aims to demonstrate the benefits of implementing Industry 4.0 in healthcare services and to recommend a framework to support this implementation. Key topics in this book include: (1) Discovering emerging technologies and techniques to support Healthcare 4.0, this includes the Internet of Things (IOT) , Big data analytics, Blockchain, Artificial Intelligence (AI) , Optimisation and Predictive Analytics; (2) Illustrating some examples of such advanced implementation in Healthcare 4.0; (3) Recommending a development process to develop health technology start-ups and entrepreneurial activities; and (4) Discuss the transformation methodology used to redesign healthcare processes in order to overcome the challenges of implementing a Healthcare 4.0 project.

As digital transformation becomes increasingly central to effective corporate strategy, today's students must understand information systems' role as the backbone to all organizations. Known for its rich Canadian content and focus on active learning, Introduction to Information Systems, Fifth Canadian Edition shows students how they can use IS to help their employers increase profitability, improve customer service, manage daily operations, and drive impact in their markets. The popular What's in IT for Me framework empowers students in accounting, finance, marketing, human resources, production/operations management, and management information systems (MIS) to connect their majors to specific IT topics and demonstrate value in the organizations they join.

Data Science and Big Data Analytics is about harnessing the power of data for new insights. The book covers the breadth of activities and methods and tools that Data Scientists use. The content focuses on concepts, principles and practical applications that are applicable to any industry and technology environment, and the learning is supported and explained with examples that you can replicate using open-source software. This book will help you: Become a contributor on a data science team Deploy a structured lifecycle approach to data analytics problems Apply appropriate analytic techniques and tools to analyzing big data Learn how to tell a compelling story with data to drive business action Prepare for EMC Proven Professional Data Science Certification Corresponding data sets are available at www.wiley.com/go/9781118876138. Get started discovering, analyzing, visualizing, and presenting data in a meaningful way today!

Plan, design, deploy, and administer the solutions available in VxRail Appliance Key FeaturesLearn how to plan and design the VxRail HCI systemUnderstand VxRail's administration, lifecycle management, and cluster scale-outExplore migration methodologies for VxRail systemsBook Description Hyper-converged infrastructure (HCI) can help you simplify the provisioning and daily operations of computing and storage. With this book, you'll understand how HCI can offload the day 0 deployment and day-to-day operations of a system administrator. You'll explore the VxRail Appliance, which is an HCI solution that provides lifecycle management, automation, and operational simplicity. Starting with an overview of the VxRail Appliance system architecture and components, you'll understand the benefits of the VxRail system and compare it with the environment of traditional servers and storage. As you advance, the book covers topics such as disaster recovery and active-active and active-passive solutions for VxRail. By the end of this book, you'll have gained the confidence to manage the deployment, administration, planning, and design of a VxRail system. What you will learnSet up the hardware and software requirements for a VxRail installationMonitor the status of VxRail appliances with the VxRail Manager pluginGet to grips with all the administration interfaces used to manage the VxRail applianceUnderstand vCenter roles and permissions management in the VxRail clusterDiscover best practices for vSAN configuration in the VxRail clusterFind out about VxRail cluster scale-out rules and how to expand the VxRail clusterDeploy active-passive solutions for VxRail with VMware Site Recovery Manager (SRM)Who this book is for If you are a system architect, system administrator, or consultant involved in planning and deploying VxRail HCI or want to learn how to use VxRail HCI, then this book is for you. Equivalent knowledge and administration experience with ESXi and vCenter Server will be helpful.

This proceedings book is divided in 2 Volumes and 8 Parts. Part I is dedicated to Decision Support System, which is about the information system that supports business or organizational decision-making activities; Part II is on Computing Methodology, which is always used to provide the most effective algorithm for numerical solutions of various modeling problems; Part III presents Information Technology, which is the application of computers to store, study, retrieve, transmit and manipulate data, or information in the context of a business or other enterprise; Part IV is dedicated to Data Analysis, which is a process of inspecting, cleansing, transforming, and modeling data with the goal of discovering useful information, suggesting conclusions, and supporting decision-making; Part V presents papers on Operational Management, which is about the plan, organization, implementation and control of the operation process; Part VI is on Project Management, which is about the initiating, planning, executing, controlling, and closing the work of a team to achieve specific goals and meet specific success criteria at the specified time in the field of engineering; Part VII presents Green Supply Chain, which is about the management of the flow of goods and services based on the concept of "low-carbon"; Part VIII is focused on Industry Strategy Management, which refers to the decision-making and management art of an industry or organization in a long-term and long-term development direction, objectives, tasks and policies, as well as resource allocation.

Exploring the Boundaries of Big Data

Proceedings of 4th International Conference on BigData Analysis and Data Mining 2017

Big Data

Innovations in Digital Economy

IoT and ICT for Healthcare Applications

Data Science and Big Data Analytics

Data Science and Big Data AnalyticsDiscovering, Analyzing, Visualizing and Presenting DataJohn Wiley & Sons

Integrate big data into business to drive competitive advantage and sustainable success Big Data MBA brings insight and expertise to leveraging big data in business so you can harness the power of analytics and gain a true business advantage. Based on a practical framework with supporting methodology and hands-on exercises, this book helps identify where and how big data can help you transform your business. You'll learn how to exploit new sources of customer, product, and operational data, coupled with advanced analytics and data science, to optimize key processes, uncover monetization opportunities, and create new sources of competitive differentiation. The discussion includes guidelines for operationalizing analytics, optimal organizational structure, and using analytic insights throughout your organization's user experience to customers and front-end employees alike. You'll learn to "think like a data scientist" as you build upon the decisions your business is trying to make, the hypotheses you need to test, and the predictions you need to produce. Business stakeholders no longer need to relinquish control of data and analytics to IT. In fact, they must champion the organization's data collection and analysis efforts. This book is a primer on the business approach to analytics, providing the practical understanding you need to convert data into opportunity. Understand where and how to leverage big data Integrate analytics into everyday operations Structure your organization to drive analytic insights Optimize processes, uncover opportunities, and stand out from the rest Help business stakeholders to "think like a data scientist" Understand appropriate business application of different analytic techniques If you want data to transform your business, you need to know how to put it to use. Big Data MBA shows you how to implement big data and analytics to make better decisions.

Presents a new theory of media ethics that is explicitly international.

Broad coverage of digital product creation, from design to manufacture and process optimization This book addresses the need to provide up-to-date coverage of current CAD/CAM usage and implementation. It covers, in one source, the entire design-to-manufacture process, reflecting the industry trend to further integrate CAD and CAM into a single, unified process. It also updates the computer aided design theory and methods in modern manufacturing systems and examines the most advanced computer-aided tools used in digital manufacturing. Computer Aided Design and Manufacturing consists of three parts. The first part on Computer Aided Design (CAD) offers the chapters on Geometric Modelling; Knowledge Based Engineering; Platforming Technology; Reverse Engineering; and Motion Simulation. The second part on Computer Aided Manufacturing (CAM) covers Group Technology and Cellular Manufacturing; Computer Aided Fixture Design; Computer Aided Manufacturing; Simulation of Manufacturing Processes; and Computer Aided Design of Tools, Dies and Molds (TDM). The final part includes the chapters on Digital Manufacturing; Additive Manufacturing; and Design for Sustainability. The book is also featured for being uniquely structured to classify and align engineering disciplines and computer aided technologies from the perspective of the design needs in whole product life cycles, utilizing a comprehensive Solidworks package (add-ins, toolbox, and library) to showcase the most critical functionalities of modern computer aided tools, and presenting real-world design projects and case studies so that readers can gain CAD and CAM problem-solving skills upon the CAD/CAM theory. Computer Aided Design and Manufacturing is an ideal textbook for undergraduate and graduate students in mechanical engineering, manufacturing engineering, and industrial engineering. It can also be used as a technical reference for researchers and engineers in mechanical and manufacturing engineering or computer-aided technologies.

Though the exact nature and delineation of Big Data is still unclear, it seems likely that Big Data will have an enormous impact on our daily lives. 'Exploring the Boundaries of Big Data' serves as preparatory work for The Netherlands Scientific Council for Government Policy's advice to the Dutch government, which has asked the Council to address questions regarding Big Data, security and privacy. It is divided into five parts, each part engaging with a different perspective on Big Data: the technical, empirical, legal, regulatory and international perspective.

Introduction to Environmental Data Analysis and Modeling

Cloud and Virtual Data Storage Networking

Big Data Management and Processing

Journal of Computer Engineering & Information Technology : Volume 6

18th International Conference, BPM 2020, Seville, Spain, September 13 – 18, 2020, Proceedings

Statistical Tools, Machine Learning, and R-Statistical Software Overview

The new edition of a bestseller, now revised and update throughout! This new edition of the unparalleled bestseller serves as a full training course all in one and as the world's largest data storage company, EMC is the ideal author for such a critical resource. They cover the components of a storage system and the different storage system models while also offering essential new material that explores the advances in existing technologies and the emergence of the "Cloud" as well as updates and vital information on new technologies. Features a separate section on emerging area of cloud computing Covers new technologies such as: data de-duplication, unified storage, continuous data protection technology, virtual provisioning, FCoE, flash drives, storage tiering, big data, and more Details storage models such as Network Attached Storage (NAS), Storage Area Network (SAN), Object Based Storage along with virtualization at various infrastructure components Explores Business Continuity and Security in physical and virtualized environment Includes an enhanced Appendix for additional information This authoritative guide is essential for getting up to speed on the newest advances in information storage and management.

Growing student numbers, increased student expectations, new approaches to learning, and fast-paced technological advances all contribute to the need for universities to take a more strategic approach to their buildings, including formal and informal learning spaces. Exploring Informal Learning Space in the University addresses the issue of informal learning space from the perspectives of a comprehensive range of stakeholders, including students, academics, facilities managers, university managers, IT managers, architects, interior designers, and librarians. With contributions from a range of experts, practitioners and academics around the world, this book uses a combination of case studies and theoretical discussion to explore the rationale and theory of informal learning space alongside the practicalities of its planning, development and utilization. The volume is at once ambitious and pragmatic, combining innovative thinking with a firm awareness of practicalities, including the varied constraints faced by universities and the need to work in tandem with broader strategies. Advocating broad collaboration at both planning and delivery stage, the result is essential reading for anyone involved in the delivery of learning space provision – from architects and designers, to university managers and strategists. It will also be of particular interest to academics, researchers and postgraduate students engaged in the study of library & information science or higher education policy and strategy.

Clouds are being positioned as the next-generation consolidated, centralized, yet federated IT infrastructure for hosting all kinds of IT platforms and for deploying, maintaining, and managing a wider variety of personal, as well as professional applications and services. Handbook of Research on Cloud Infrastructures for Big Data Analytics focuses exclusively on the topic of cloud-sponsored big data analytics for creating flexible and futuristic organizations. This book helps researchers and practitioners, as well as business entrepreneurs, to make informed decisions and consider appropriate action to simplify and streamline the arduous journey towards smarter enterprises.

Internet of things (IoT) applications employed for healthcare generate a huge amount of data that needs to be analyzed to produce the expected reports. To accomplish this task, a cloud-based analytical solution is ideal in order to generate faster reports in comparison to the traditional way. Given the current state of the world in which every day IoT devices are developed to provide healthcare solutions, it is essential to consider the mechanisms used to collect and analyze the data to provide thorough reports. Integrating AI in IoT Analytics on the Cloud for Healthcare Applications applies artificial intelligence (AI) in edge analytics for healthcare applications, analyzes the impact of tools and techniques in edge analytics for healthcare, and discusses security solutions for edge analytics in healthcare IoT. Covering topics such as data analytics and next generation healthcare systems, it is ideal for researchers, academicians, technologists, IT specialists, data scientists, healthcare industries, IoT developers, data security analysts, educators, and students.

The authors invited more than 100 journalists worldwide to use photographs, charts and essays to explore the world of big data and its growing influence on our lives and society.

Computing Systems and Approaches

Implementing VxRail HCI Solutions

Information Storage and Management

Computing, Communication and Signal Processing

Exploring Informal Learning Space in the University

Proceedings of the Twelfth International Conference on Management Science and Engineering Management

This book presents a detailed review of high-performance computing infrastructures for next-generation big data and fast data analytics. Features: includes case studies and learning activities throughout the book and self-study exercises in every chapter; presents detailed case studies on social media analytics for intelligent businesses and on big data analytics (BDA) in the healthcare sector; describes the network infrastructure requirements for effective transfer of big data, and the storage infrastructure requirements of applications which generate big data; examines real-time analytics solutions; introduces in-database processing and in-memory analytics techniques for data mining; discusses the use of mainframes for handling real-time big data and the latest types of data management systems for BDA; provides information on the use of cluster, grid and cloud computing systems for BDA; reviews the peer-to-peer techniques and tools and the common information visualization techniques, used in BDA.

Due to the increasing availability of affordable internet services, the number of users, and the need for a wider range of multimedia-based applications, internet usage is on the rise. With so many users and such a large amount of data, the requirements of analyzing large data sets leads to the need for further advancements to information processing. Big Data Processing With Hadoop is an essential reference source that discusses possible solutions for millions of users working with a variety of data applications, who expect fast turnaround responses, but encounter issues with processing data at the rate it comes in. Featuring research on topics such as market basket analytics, scheduler load simulator, and writing YARN applications, this book is ideally designed for IoT professionals, students, and engineers seeking coverage on many of the real-world challenges regarding big data.

This collection explores the relevance of global trade law for data, big data and cross-border data flows. Contributing authors from different disciplines including law, economics and political science analyze developments at the World Trade Organization and in preferential trade venues by asking what future-oriented models for data governance are available and viable in the area of trade law and policy. The collection paints the broad picture of the interaction between digital technologies and trade regulation as well as provides in-depth analyses of critical to the data-driven economy issues, such as privacy and AI, and different countries' perspectives. This title is also available as Open Access on Cambridge Core.

The current policing landscape has seen the rise in serious and organized crime across the globe. Criminals are innovating in real-time leveraging cyber, social media, enhanced surveillance to support their activities. In so doing, the criminal landscape has become transnational whereby collaborative networks have flourished thereby creating greater complexity and novel threats for the international policing community. As new threats to local, regional, national and global security are emerging, leveraging science and technology innovations has become more important. Advances in big data analytics, cyber forensics, surveillance, modeling and simulation has led to a more data driven, hypothesis generated and model informed approach. Novel science and technology innovations are presented in this edited book to provide insights and pathways that challenges the emerging and complex criminal threat landscape by supporting policing operations.

The amount of data being generated, processed, and stored has reached unprecedented levels. Even during the recent economic crisis, there has been no slow down or information recession. Instead, the need to process, move, and store data has only increased. Consequently, IT organizations are looking to do more with what they have while supporting growth along with new services without compromising on cost and service delivery. Cloud and Virtual Data Storage Networking, by savvy IT industry veteran Greg Schulz, looks at converging IT resources and management technologies for facilitating efficient and effective delivery of information services, including enabling of Information Factories. Regardless of your experience level, Schulz guides you through the various technologies and techniques available for achieving efficient information services delivery. Coverage includes: Information services delivery model options and best practices Metrics for efficient E2E IT management Server, storage, I/O networking, and data center virtualization Converged and cloud storage services (IaaS, PaaS, SaaS) Data protection for virtual, cloud, and physical environments Data footprint reduction and data protection modernization High availability, business continuance, and disaster recovery This much-needed reference brings together technology themes and topics that are converging in IT and data center environments for enabling effective information services, in a practical and hype-free manner. When it comes to IT clouds and virtualization, you must look before you leap. This book will help you address the questions of when, where, with what, and how to leverage cloud, virtual, and data storage networking as part of your IT infrastructure. A video of Greg Schulz discussing his new book is featured on the CRC Press YouTube channel. Visit Slideshare to view a slide presentation based on the book.

First International Conference, SPBPU IDE 2019, St. Petersburg, Russia, October 24–25, 2019, Revised Selected Papers

Science Informed Policing

Big Data MBA

High-Performance Big-Data Analytics

Research Anthology on Big Data Analytics, Architectures, and Applications

Today, cloud computing, big data, and the internet of things (IoT) are becoming indubitable parts of modern information and communication systems. They cover not only information and communication technology but also all types of systems in society including within the realms of business, finance, industry, manufacturing, and management. Therefore, it is critical to remain up-to-date on the latest advancements and applications, as well as current issues and challenges. The Handbook of Research on Cloud Computing and Big Data Applications in IoT is a pivotal reference source that provides relevant theoretical frameworks and the latest empirical research findings on principles, challenges, and applications of cloud computing, big data, and IoT. While highlighting topics such as fog computing, language interaction, and scheduling algorithms, this publication is ideally designed for software developers, computer engineers, scientists, professionals, academicians, researchers, and students.

PRAISE FOR THE ANALYTICS LIFECYCLE TOOLKIT "Full of wisdom and experience about analytics, this book's greatest strength is its lifecycle approach. From framing the question to getting results, you'll learn how analytics can really have an impact on organizations." —Thomas H. Davenport, Ph.D., Author of Competing on Analytics and Only Humans Need Apply "This book condenses a lot of deep thinking on the wide field of analytics strategy. Analytics is not easy—there are no quickie AI/BI/ML shortcuts to understanding your data, your business, or your processes. You have to build a diverse team of talent. You have to respect the hazards of 'fishing expeditions' that may need false-discovery-rate adjustments. You should consider designed experiments to get the true behavior of a process, something that observational data may hint at, but not provide complete understanding. There are dimensions of data wrangling, feature engineering, and data sense-making that all call for different skills. But with deep investment in analytics comes deep insight into processes and tremendous opportunity for improvements. This book puts analytics in the context of a strategic business system, with all its dimensions." —John Sall, Ph.D., SAS co-founder and chief architect of JMP "The Analytics Lifecycle Toolkit provides a clear prescription for organizations aiming to develop a high-performing and scalable analytics capability. Greg organizes and develops with unusual clarity some of the critical nontechnical aspects of the analytics value-chain, and links them with the technical as building blocks in a comprehensive practice. Studying this map of how to negotiate the challenges to effectiveness and efficiency in analytics could save organizations months, or even years of painful trial and error on the road to proficiency." —Scott Radcliffe, Executive Director, Data Analytics at Cox Communications "Many books exist that answer the question 'what is the right tool to solve a problem?' This is one of the few books I've read that answers the much more difficult question 'how do we make analytics become transformative throughout our organization?' Incorporating elements of data science, design thinking, and organizational theory, this book is a valuable resource for executives looking to build analytics into their organizational DNA, data scientists looking to expand their organizational reach, and analytics programs that teach students not just how to do data science, but how to use data science to affect tangible change." —Jeremy Petranka, Ph.D., Assistant Dean Master of Quantitative Management at Duke University's Fuqua School of Business "This book is the 'thinking person's guide to analytics.' Greg has gone deep on some topics and provided considerable references across the analytics lifecycle. This is one of the best books on analytics I have read…and I think I have read them all!" —Bob Gladden, Vice President, Enterprise Analytics, Highmark Health

This book constitutes the revised and extended papers of the First International Conference on Innovations in Digital Economy, SPBU IDE 2019, held in St. Petersburg, Russia, in October 2019. The 8 papers presented were thoroughly reviewed and selected for publication from 78 submissions. The papers are organized according the following topical sections: economic efficiency and social consequences of digital innovations implementation; industrial, service and agricultural digitalization; regional innovation systems and clusters as drivers of the economic growth during the Fourth Industrial Revolution; response of an educational system and labor market to the digital-driven changes in the economic system.

Data science and analytics have emerged as the most desired fields in driving business decisions. Using the techniques and methods of data science, decision makers can uncover hidden patterns in their data, develop algorithms and models that help improve processes and make key business decisions. Data science is a data driven decision making approach that uses several different areas and disciplines with a purpose of extracting insights and knowledge from structured and unstructured data. The algorithms and models of data science along with machine learning and predictive modeling are widely used in solving business problems and predicting future outcomes. This book combines the key concepts of data science and analytics to help you gain a practical understanding of these fields. The four different sections of the book are divided into chapters that explain the core of data science. Given the booming interest in data science, this book is timely and informative.

This book is a compilation of contributed works on management of data in the age of artificial intelligence. The AI technologies have changed the way the businesses do manage themselves in modern times. It becomes much more important to manage the data a business owns when the same can be collated and used by the allied AI technologies for forming business decisions. This book highlights how AI and machine learning can help businesses categorise and manage their organizational data. The book introduces how small businesses can benefit from AI technologies for their data management with limited budgets. The book advocates for making AI processes to be core part of consumer experience and support management within the businesses. As a unique feature, this book also goes to make an awareness as to how human brain can use AI's deep learning capabilities to make reflective decisions. The book also introduces as to how big data and big data analytics can help agriculture and farm management sector. It is hoped that the readership will find this book useful in the areas of big data management, machine learning and data decisions, AI technologies for small businesses, usage of AI in emerging sectors and those areas where data needs to managed in an environment of automation.

Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing

A Practical Guide for an Effective Analytics Capability

Global Environment Outlook – GEO-6: Healthy Planet, Healthy People

Next Generation Processes with the Latest Technologies

Hands-on techniques to implement enterprise analytics and machine learning using Hadoop, Spark, NoSQL and R

Proceedings of ICCASP 2018

From the Foreword: "Big Data Management and Processing is [a] state-of-the-art book that deals with a wide range of topical themes in the field of Big Data. The book, which probes many issues related to this exciting and rapidly growing field, covers processing, management, analytics, and applications... [It] is a very valuable addition to the literature. It will serve as a source of up-to-date research in this continuously developing area. The book also provides an opportunity for researchers to explore the use of advanced computing technologies and their impact on enhancing our capabilities to conduct more sophisticated studies." ---Sartaj Sahni, University of Florida, USA "Big Data Management and Processing covers the latest Big Data research results in processing, analytics, management and applications. Both fundamental insights and representative applications are provided. This book is a timely and valuable resource for students, researchers and seasoned practitioners in Big Data fields. --Hai Jin, Huazhong University of Science and Technology, China Big Data Management and Processing explores a range of big data related issues and their impact on the design of new computing systems. The twenty-one chapters were carefully selected and feature contributions from several outstanding researchers. The book endeavors to strike a balance between theoretical and practical coverage of innovative problem solving techniques for a range of platforms. It serves as a repository of paradigms, technologies, and applications that target different facets of big data computing systems. The first part of the book explores energy and resource management issues, as well as legal compliance and quality management for Big Data. It covers In-Memory computing and In-Memory data grids, as well as co-scheduling for high performance computing applications. The second part of the book includes comprehensive coverage of Hadoop and Spark, along with security, privacy, and trust challenges and solutions. The latter part of the book covers mining and clustering in Big Data, and includes applications in genomics, hospital big data processing, and vehicular cloud computing. The book also analyzes funding for Big Data projects.

Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

Get command of your organizational Big Data using the power of data science and analytics Key Features A perfect companion to boost your Big Data storing, processing, analyzing skills to help you take informed business decisions Work with the best tools such as Apache Hadoop, R, Python, and Spark for NoSQL platforms to perform massive online analyses Get expert tips on statistical inference, machine learning, mathematical modeling, and data visualization for Big Data Book Description Big Data analytics relates to the strategies used by organizations to collect, organize and analyze large amounts of data to uncover valuable business insights that otherwise cannot be analyzed through traditional systems. Crafting an enterprise-scale cost-efficient Big Data and machine learning solution to uncover insights and value from your organization's data is a challenge. Today, with hundreds of new Big Data systems, machine learning packages and BI Tools, selecting the right combination of technologies is an even greater challenge. This book will help you do that. With the help of this guide, you will be able to bridge the gap between the theoretical world of technology with the practical ground reality of building corporate Big Data and data science platforms. You will get hands-on exposure to Hadoop and Spark, build machine learning dashboards using R and R Shiny, create web-based apps using NoSQL databases such as MongoDB and even learn how to write R code for neural networks. By the end of the book, you will have a very clear and concrete understanding of what Big Data analytics means, how it drives revenues for organizations, and how you can develop your own Big Data analytics solution using different tools and methods articulated in this book. What you will learn - Get a 360-degree view into the world of Big Data, data science and machine learning - Broad range of technical and business Big Data analytics topics that caters to the interests of the technical experts as well as corporate IT executives - Get hands-on experience with industry-standard Big Data and machine learning tools such as Hadoop, Spark, MongoDB, KDB+ and R - Create production-grade machine learning BI Dashboards using R and R Shiny with step-by-step instructions - Learn how to combine open-source Big Data, machine learning and BI Tools to create low-cost business analytics applications - Understand corporate strategies for successful Big Data and data science projects - Go beyond general-purpose analytics to develop cutting-edge Big Data applications using emerging technologies Who this book is for The book is intended for existing and aspiring Big Data professionals who wish to become the go-to person in their organization when it comes to Big Data architecture, analytics, and governance. While no prior knowledge of Big Data or related technologies is assumed, it will be helpful to have some programming experience.

September 07-08, 2017 Paris, France Key Topics : Cloud computing, Forecasting from Big Data, Optimization and Big Data, New visualization techniques, Social network analysis, Search and data mining, Complexity and Algorithms, Open Data, ETL (Extract, Transform and Load), OLAP Technologies, Big Data Algorithm, Data Mining Analysis, Kernel Methods, Frequent Pattern Mining, Clustering, Data Privacy and Ethics, Big Data Technologies, Business Analytics, Data Mining Methods and Algorithms, Data Mining Tasks and Processes, Data Mining Applications in Science, Engineering, Healthcare and Medicine, Big Data Applications, Data Mining Tools and Software, Data Warehousing, Artificial Intelligence,

This book constitutes the proceedings of the 18th International Conference on Business Process Management, BPM 2020, held in Seville, Spain, in September 2020. The conference was held virtually due to the COVID-19 pandemic. The 27 full papers included in this volume were carefully reviewed and selected from 125 submissions. Two full keynote papers are also included. The papers are organized in topical sections named: foundations; engineering; and management.

Computer Aided Design and Manufacturing

Big Data Processing With Hadoop

Smart Education and e-Learning 2018

Business Process Management

Making Big Data Work for Your Business

Integrating AI in IoT Analytics on the Cloud for Healthcare Applications

The main purpose of this book is to investigate, explore and describe approaches and methods to facilitate data understanding through analytics solutions based on its principles, concepts and applications. But analyzing data is also about involving the use of software. For this, and in order to cover some aspect of data analytics, this book uses software (Excel, SPSS, Python, etc) which can help readers to better understand the analytics process in simple terms and supporting useful methods in its application.

Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization. With the efficiencies that big data bring to all institutions, data is continuously being collected and analyzed. However, data sets may be too complex for traditional data-processing, and therefore, different strategies must evolve to solve the issue. The field of big data works as a valuable tool for many different industries. The Research Anthology on Big Data Analytics, Architectures, and Applications is a complete reference source on big data analytics that offers the latest, innovative architectures and frameworks and explores a variety of applications within various industries. Offering an international perspective, the applications discussed within this anthology feature global representation. Covering topics such as advertising curricula, driven supply chain, and smart cities, this research anthology is ideal for data scientists, data analysts, computer engineers, software engineers, technologists, government officials, managers, CEOs, professors, graduate students, researchers, and academicians.

Leverage big data to add value to your business Social media analytics, web-tracking, and other technologies help companies acquire and handle massive amounts of data to better understand their customers, products, competition, and markets. Armed with the insights from big data, companies can improve customer experience and products, add value, and increase return on investment. The tricky part for busy IT professionals and executives is how to get this done, and that's where this practical book comes in. Big Data: Understanding How Data Powers Big Business is a complete how-to guide to leveraging big data to drive business value. Full of practical techniques, real-world examples, and hands-on exercises, this book explores the technologies involved, as well as how to find areas of the organization that can take full advantage of big data. Shows how to decompose current business strategies in order to link big data initiatives to the organization's value creation processes Explores different value creation processes and models Explains issues surrounding operationalizing big data, including organizational structures, education challenges, and new big data-related roles Provides methodology worksheets and exercises so readers can apply techniques Includes real-world examples from a variety of organizations leveraging big data Big Data: Understanding How Data Powers Big Business is written by one of Big Data's preeminent experts, William Schmarzo. Don't miss his invaluable insights and advice.

This book provides an insight on the importance that Internet of Things (IoT) and Information and Communication Technology (ICT) solutions can have in taking care of people's health. Key features of this book present the recent and emerging developments in various specializations in curing health problems and finding their solutions by incorporating IoT and ICT. This book presents useful IoT and ICT applications and architectures that cater to their improved healthcare requirements. Topics include in-home healthcare services based on the Internet-of-Things; RFID technology for IoT based personal healthcare; Real-time reporting and monitoring; Interfacing devices to IoT; Smart medical services; Embedded gateway configuration (EGC); Health monitoring infrastructure; and more. Features a number of practical solutions and applications of IoT and ICT on healthcare; Includes application domains such as communication technology and electronic materials and devices; Applies to researchers, academics, students, and practitioners around the world.

This book introduces numerical methods for processing datasets which may be of any form, illustrating adequately computational resolution of environmental alongside the use of open source libraries. This book solves the challenges of misrepresentation of datasets that are relevant directly or indirectly to the research. It illustrates new ways of screening datasets or images for maximum utilization. The adoption of various numerical methods in dataset treatment would certainly create a new scientific approach. The book enlightens researchers on how to analyse measurements to ensure 100% utilization. It introduces new ways of data treatment that are based on a sound mathematical and computational approach.

Driving Business Strategies with Data Science

Big Data For Dummies

Media Ethics and Global Justice in the Digital Age

Practical Big Data Analytics

Big Data and Global Trade Law

Healthcare 4.0

Published to coincide with the Fourth United Nations Environmental Assembly, UN Environment's sixth Global Environment Outlook calls on decision makers to take bold and urgent action to address pressing environmental issues in order to protect the planet and human health. By bringing together hundreds of scientists, peer reviewers and collaborating institutions and partners, the GEO reports build on sound scientific knowledge to provide governments, local authorities, businesses and individual citizens with the information needed to guide societies to a truly sustainable world by 2050. GEO-6 outlines the current state of the environment, illustrates possible future environmental trends and analyses the effectiveness of policies. This flagship report shows how governments can put us on the path to a truly sustainable future - emphasising that urgent and inclusive action is needed to achieve a healthy planet with healthy people. This title is also available as Open Access on Cambridge Core.

A Dell Technologies perspective on today's data landscape and the key ingredients for planning a modern, distributed data pipeline for your multicloud data-driven enterprise

Find the right big data solution for your business ororganization Big data management is one of the major challenges facingbusiness, industry, and not-for-profit organizations. Data setssuch as customer transactions for a mega-retailer, weather patternsmonitored by meteorologists, or social network activity can quicklyoutpace the capacity of traditional data management tools. If youneed to develop or manage big data solutions, you'll appreciate howthese four experts define, explain, and guide you through this newand often confusing concept. You'll learn what it is, why itmatters, and how to choose and implement solutions that work. Effectively managing big data is an issue of growing importanceto businesses, not-for-profit organizations, government, and ITprofessionals Authors are experts in information management, big data, and avariety of solutions Explains big data in detail and discusses how to select andimplement a solution, security concerns to consider, data storageand presentation issues, analytics, and much more Provides essential information in a no-nonsense,easy-to-understand style that is empowering Big Data For Dummies cuts through the confusion and helpsyou take charge of big data solutions for your organization.

This book features the contributions presented at the 5th International KES Conference on Smart Education and e-Learning, which took place in Gold Coast, Australia, June 20–22, 2018. The peer-reviewed papers are grouped into several interconnected parts: Part 1 – Smart Education: Systems and Technology, Part 2 – Smart Pedagogy, Part 3 – Smart Education: Case Studies and Research, and Part 4: Sustainable Learning Technologies: Smart Higher Education Futures. Smart education and smart e-learning are emerging and rapidly growing areas with the potential to transform existing teaching strategies, learning environments, and educational activities and technology in the classroom. Smart education and smart e-learning focus on enabling instructors to develop new ways of achieving excellence in teaching in highly technological smart classrooms, and providing students with new opportunities to maximize their success and select the best options for their education, location and learning style, as well as the mode of content delivery. This book serves as a useful source of research data and valuable information on current research projects, best practices and case studies for faculty, scholars, Ph.D. students, administrators, and practitioners – all those who are interested in smart education and smart e-learning.

If your are interested in the power of Big Data to drive improvement in your business, then this book will help you build and initiate a project for positive change.

Handbook of Research on Cloud Infrastructures for Big Data Analytics

Understanding How Data Powers Big Business

Essentials of Data Science and Analytics

Modern Enterprise Data Pipelines

Discovering, Analyzing, Visualizing and Presenting Data

Data Analytics and Big Data

This book highlights cutting-edge research on various aspects of human-computer interaction (HCI). It includes selected research papers presented at the Third International Conference on Computing, Communication and Signal Processing (ICCASP 2018), organized by Dr. Babasaheb Ambedkar Technological University in Lonere-Raigad, India on January 26–27, 2018. It covers pioneering topics in the field of computer, electrical, and electronics engineering, e.g. signal and image processing, RF and microwave engineering, and emerging technologies such as IoT, cloud computing, HCI, and green computing. As such, the book offers a valuable guide for all scientists, engineers and research students in the areas of engineering and technology.

A complete guide to VxRail Appliance administration and configuration

A Collaborative Approach

The Analytics Lifecycle Toolkit

Handbook of Research on Cloud Computing and Big Data Applications in IoT

Storing, Managing, and Protecting Digital Information in Classic, Virtualized, and Cloud Environments

Management of Data in AI Age