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Big Data For Dummies

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**GARNER
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Big Data For
Dummies

Vikas
Publishing
House
The era of
rapidly
progressing
technology we
live in
generates
vast amounts
of data;
however, the

challenge
exists in
understanding
how to
aggressively
monitor and
make sense of
this data.
Without a
better
understanding
of how to

collect and manage such large data sets, it becomes increasingly difficult to successfully utilize them. *Managing Big Data Integration in the Public Sector* is a pivotal reference source for the latest scholarly research on the application of big data analytics in government contexts and identifies various strategies in which big data platforms can generate

improvements within that sector. Highlighting issues surrounding data management, current models, and real-world applications, this book is ideally designed for professionals, government agencies, researchers, and non-profit organizations interested in the benefits of big data analytics applied in the public sphere. *Principles of Database Management* CRC Press
The book

features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018) held at the University of Engineering & Management, Kolkata, India, on February 23–25, 2018. It comprises high-quality research by academics and industrial experts in the field of computing and communication, including

full-length papers, research-in-progress papers, case studies related to all the areas of data mining, machine learning, IoT and information security. Big Data in ehealthcare IGI Global Traditional intrusion detection and logfile analysis are no longer enough to protect today's complex networks. In this practical guide, security researcher Michael Collins shows you	several techniques and tools for collecting and analyzing network traffic datasets. You'll understand how your network is used, and what actions are necessary to protect and improve it. Divided into three sections, this book examines the process of collecting and organizing data, various tools for analysis, and several different analytic scenarios and techniques. It's ideal for	network administrators and operational security analysts familiar with scripting. Explore network, host, and service sensors for capturing security data Store data traffic with relational databases, graph databases, Redis, and Hadoop Use SiLK, the R language, and other tools for analysis and visualization Detect unusual phenomena through Exploratory
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Data Analysis (EDA) Identify significant structures in networks with graph analysis Determine the traffic that's crossing service ports in a network Examine traffic volume and behavior to spot DDoS and database raids Get a step-by-step process for network mapping and inventory

Managing Big Data Integration in the Public Sector

Cambridge University Press

Introductory, theory-

practice balanced text teaching the fundamentals of databases to advanced undergraduates or graduate students in information systems or computer science.

Big Data Networked Storage Solution for Hadoop CRC Press

Over the last several years there are two important trends that require additional thought when putting together an architecture for a hosted service. The

ability to analyze and process enormous amounts of data is increasingly important. From a technology perspective, the two trends to focus on are: 1. Batch processing -- the increasing awareness of batch processing and the recent uptick in use of the map reduce paradigm for that purpose; Distributed computing is a field of computer science that studies distributed

systems. 2. represent information,
NoSQL stores - significant analysis,
The rise of so advances in background
called the way that and
""NoSQL"" hosted everything
stores and systems are you need to
their use to developed. know. In easy
serve up data But in order to read
to online derive the chapters, with
users; a most value for extensive
distributed file an entire references
system or system, and links to
network file developers get you to
system is any must think know all there
file system about how is to know
that allows these two about Storing
access to files areas will and managing
from multiple work together big data-
hosts sharing in some NoSQL,
via a holistic Hadoop and
computer manner. This more right
network. This book is your away,
makes it ultimate covering:
possible for resource for Distributed
multiple users Storing and data store,
on multiple managing big Background
machines to data- NoSQL, Intelligent
share files and Hadoop and Transfer
storage more. Here Service,
resources. you will find BATON
Both of these the most up- Overlay,
trends to-date BitVault,

Bootstrapping node, Chimera (software library), Chord (peer-to-peer), Cloud (operating system), CoDeeN, Collaber, Collanos, Comparison of streaming media systems, Comparison of video hosting services, Content addressable network, Content delivery network, Coral Content Distribution Network, Data center, Distributed file system, Distributed hash table,	Distributed Networking, FAROO, Globule (CDN), GlusterFS, Grid casting, Hibari (database), High performance cloud computing, HTTP(P2P), Hyper distribution, Infrastructure for Resilient Internet Systems, Jigdo, JXTA, Kademlia, Key-based routing, Koorde, Legion (software), MagmaFS, Metalink, NeoEdge Networks, Octoshape,	Ono (P2P), Osiris (Serverless Portal System), OverSim, P-Grid, P2P-Next, P2PTV, PAST storage utility, Pastry (DHT), Peer-to-peer wiki, Prefix hash tree, Proactive network Provider Participation for P2P, Rawflow, Sciencenet, Similarity Enhanced Transfer, Space-based architecture, Superdistribution, Tapestry (DHT), Tulip Overlay, Tuotu, Web acceleration, YaCy, Aquiles,
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BigTable, Apache Cassandra, Column family, Hector (API), Keyspace (distributed data store), NoSQL, Standard column family, Super column family, Tombstone (data store), Voldemort (distributed data store), Andrew File System, Apache Hadoop, Apache Hive, BigCouch, Ceph, The Circle (file system), Cloudant, Cloudera, CloudStore, DCE	Distributed File System, Direct Access File System, Distributed File System (Microsoft), FhGFS, Gfarm file system, Global Storage Architecture, Google File System, HAMMER, IBM General Parallel File System, Infs, Lustre (file system), MapR, Moose File System, OFFSystem, OneFS distributed file system, Parallel Virtual File System, POHMELFS, Sector/Sphere, Storage@hom e, Tahoe Least-	Authority Filesystem, Wuala, XtremFS This book explains in-depth the real drivers and workings of Storing and managing big data- NoSQL, Hadoop and more. It reduces the risk of your technology, time and resources investment decisions by enabling you to compare your understanding of Storing and managing big data- NoSQL, Hadoop and more with the objectivity of experienced professionals.
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Managing**Data in****Motion** AOSIS

Internet of things (IoT) is the connection and communication of physical objects (smart devices) over the internet. In this recent age, people's daily lives are dependent on the internet through their smartphones, tablets, Smart TVs, micro-controllers, Smart Tags, computers, laptops, and cars to name a few. This book discusses different ways to create a

better IoT network and/or IoT platforms to improve the efficiency and quality of these products and subsequently their users' lives. In addition, this book provides future research directions in energy, industry, and healthcare, and explores the different applications of IoT and its associated technologies. It provides an overview and explanation of the software architecture, middleware,

data processing and data management as well as security, sensors, actuators and algorithms used to create a working IoT platform. The editors then go on to examine IoT networks and platforms as they relate to energy industry including, energy efficiency and management, intelligent energy management, smart energy through blockchain and energy-efficient/awar

e routing/sched uling challenges and issues. They then explore IoT as it applies to healthcare including biomedical image and signal analysis and disease prediction and diagnosis. Finally the editors examine the prospects and applications of IoT for industry through the concepts of smart industry, including architecture, blockchain, and Industry 4.0. This book	is intended for senior undergraduat e and graduate students, researchers and industry professionals working on IoT applications and infrastructure. Reviews IoT software architecture and middleware, data processing and management, security, privacy and reliability, architectures, protocols, technologies, algorithms, and smart objects, sensors, and	actuators Explores IoT as it applies to energy, including energy efficiency and management, intelligent energy management, smart energy through blockchain and energy- efficient/awar e routing/sched uling challenges and issues Examines IoT as it applies to healthcare including biomedical image and signal analysis, and disease prediction and diagnosis
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Examines IoT as it applies to smart industry including architecture, blockchain, and Industry 4.0 Discusses different ways to create a better IoT network or IoT platform

New Horizons for a Data-Driven Economy

John Wiley & Sons
As today's organizations are capturing exponentially larger amounts of data than ever, now is the time for organizations to rethink how they digest

that data. Through advanced algorithms and analytics techniques, organizations can harness this data, discover hidden patterns, and use the newly acquired knowledge to achieve competitive advantages. Presenting the contributions of leading experts in their respective fields, Big Data: Algorithms, Analytics, and Applications bridges the gap between the vastness

of Big Data and the appropriate computational methods for scientific and social discovery. It covers fundamental issues about Big Data, including efficient algorithmic methods to process data, better analytical strategies to digest data, and representative applications in diverse fields, such as medicine, science, and engineering. The book is organized into five main

sections: Big Data Management —considers the research issues related to the management of Big Data, including indexing and scalability aspects Big Data Processing—a ddresses the problem of processing Big Data across a wide range of resource- intensive computational settings Big Data Stream Techniques and Algorithms—e xplores research issues regarding the	management and mining of Big Data in streaming environments Big Data Privacy—focus es on models, techniques, and algorithms for preserving Big Data privacy Big Data Applications—i llustrates practical applications of Big Data across several domains, including finance, multimedia tools, biometrics, and satellite Big Data processing Overall, the book reports on state-of-	the-art studies and achievements in algorithms, analytics, and applications of Big Data. It provides readers with the basis for further efforts in this challenging scientific field that will play a leading role in next- generation database, data warehousing, data mining, and cloud computing research. It also explores related applications in diverse sectors, covering technologies
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for media/data communication, elastic media/data storage, cross-network media/data fusion, and SaaS.

Managing Big Data

"O'Reilly Media, Inc." *Managing Data in Motion* describes techniques that have been developed for significantly reducing the complexity of managing system interfaces and enabling scalable architectures. Author April Reeve brings over two

decades of experience to present a vendor-neutral approach to moving data between computing environments and systems. Readers will learn the techniques, technologies, and best practices for managing the passage of data between computer systems and integrating disparate data together in an enterprise environment. The average enterprise's computing environment is comprised of hundreds to

thousands computer systems that have been built, purchased, and acquired over time. The data from these various systems needs to be integrated for reporting and analysis, shared for business transaction processing, and converted from one format to another when old systems are replaced and new systems are acquired. The management of the "data in motion" in organizations

is rapidly becoming one of the biggest concerns for business and IT management. Data warehousing and conversion, real-time data integration, and cloud and "big data" applications are just a few of the challenges facing organizations and businesses today. Managing Data in Motion tackles these and other topics in a style easily understood by business and

IT managers as well as programmers and architects. Presents a vendor-neutral overview of the different technologies and techniques for moving data between computer systems including the emerging solutions for unstructured as well as structured data types. Explains, in non-technical terms, the architecture and components required to perform data integration

Describes how to reduce the complexity of managing system interfaces and enable a scalable data architecture that can handle the dimensions of "Big Data" *The Enterprise Big Data Lake* W. W. Norton & Company Due to market forces and technological evolution, Big Data computing is developing at an increasing rate. A wide variety of novel approaches and tools have emerged to tackle the

challenges of Big Data, creating both more opportunities and more challenges for students and professionals in the field of data computation and analysis. Presenting a mix of industry cases and theory, Big Data Computing discusses the technical and practical issues related to Big Data in intelligent information management. Emphasizing the adoption and diffusion of Big Data tools and

technologies in industry, the book introduces a broad range of Big Data concepts, tools, and techniques. It covers a wide range of research, and provides comparisons between state-of-the-art approaches. Comprised of five sections, the book focuses on: What Big Data is and why it is important Semantic technologies Tools and methods Business and economic perspectives

Big Data applications across industries Emerging Technologies in Data Mining and Information Security Apress Find the right big data solution for your business or organization Big data management is one of the major challenges facing business , industry, and not-for-profit organizations. Data sets such as customer transactions for a mega-retailer, weather patterns monit

ored by meteorologists, or social network activity can quickly outpace the capacity of traditional data management tools. If you need to develop or manage big data solutions, you'll appreciate how these four experts define, explain, and guide you through this new and often confusing concept. You'll learn what it is, why it matters, and how to choose and implement

solutions that work. Effectively managing big data is an issue of growing importance to businesses, not-for-profit organizations, government, and IT professionals. Authors are experts in information management, big data, and a variety of solutions. Explains big data in detail and discusses how to select and implement a solution, security concerns to consider, data storage and 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 helps you take charge of big data solutions for your organization. **Enterprise 2.0** Simon and Schuster Summary. Introducing Data Science teaches you how to accomplish the fundamental

tasks that occupy data scientists. Using the Python language and common Python libraries, you'll experience firsthand the challenges of dealing with data at scale and gain a solid foundation in data science. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Many companies need developers

with data science skills to work on projects ranging from social media marketing to machine learning. Discovering what you need to learn to begin a career as a data scientist can seem bewildering. This book is designed to help you get started. About the Book Introducing Data ScienceIntroducing Data Science explains vital data science concepts and teaches you how to

accomplish the fundamental tasks that occupy data scientists. You'll explore data visualization, graph databases, the use of NoSQL, and the data science process. You'll use the Python language and common Python libraries as you experience firsthand the challenges of dealing with data at scale. Discover how Python allows you to gain insights from data sets so

<p>big that they need to be stored on multiple machines, or from data moving so quickly that no single machine can handle it. This book gives you hands-on experience with the most popular Python data science libraries, Scikit-learn and StatsModels. After reading this book, you'll have the solid foundation you need to start a career in data science. What's Inside</p>	<p>Handling large data Introduction to machine learning Using Python to work with data Writing data science algorithms About the Reader This book assumes you're comfortable reading code in Python or a similar language, such as C, Ruby, or JavaScript. No prior experience with data science is required. About the Authors Davy Cielen, Arno D. B. Meysman, and</p>	<p>Mohamed Ali are the founders and managing partners of Optimately and Maiton, where they focus on developing data science projects and solutions in various sectors. Table of Contents Data science in a big data world The data science process Machine learning Handling large data on a single computer First steps in big data Join the NoSQL movement The rise of</p>
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graph databases Text mining and text analytics Data visualization to the end user <i>Introducing Data Science</i> CRC Press In this book readers will find technological discussions on the existing and emerging technologies across the different stages of the big data value chain. They will learn about legal aspects of big data, the social impact, and about education needs and	requirements. And they will discover the business perspective and how big data technology can be exploited to deliver value within different sectors of the economy. The book is structured in four parts: Part I “The Big Data Opportunity” explores the value potential of big data with a particular focus on the European context. It also describes the legal, business and	social dimensions that need to be addressed, and briefly introduces the European Commission’s BIG project. Part II “The Big Data Value Chain” details the complete big data lifecycle from a technical point of view, ranging from data acquisition, analysis, curation and storage, to data usage and exploitation. Next, Part III “Usage and Exploitation of Big Data” illustrates the value creation
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possibilities of big data applications in various sectors, including industry, healthcare, finance, energy, media and public services. Finally, Part IV “A Roadmap for Big Data Research” identifies and prioritizes the cross-sectorial requirements for big data research, and outlines the most urgent and challenging technological, economic, political and societal issues for big data in Europe. This

compendium summarizes more than two years of work performed by a leading group of major European research centers and industries in the context of the BIG project. It brings together research findings, forecasts and estimates related to this challenging technological context that is becoming the major axis of the new digitally transformed business environment. **Proceedings**

of the International Conference on Business and Management Dynamics 2016: Sustainable economies in the information economy
Springer
This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2016, CISIS 2016 and ICEUTE 2016, all conferences held in the beautiful and historic city of San Sebastián

(Spain), in October 2016. Soft computing represents a collection or set of computational techniques in machine learning, computer science and some engineering disciplines, which investigate, simulate, and analyze very complex issues and phenomena. After a through peer-review process, the 11th SOCO 2016 International Program Committee

selected 45 papers. In this relevant edition a special emphasis was put on the organization of special sessions. Two special session was organized related to relevant topics as: Optimization, Modeling and Control Systems by Soft Computing and Soft Computing Methods in Manufacturing and Management Systems. The aim of the 9th CISIS 2016 conference is

to offer a meeting opportunity for academic and industry-related researchers belonging to the various, vast communities of Computational Intelligence, Information Security, and Data Mining. The need for intelligent, flexible behaviour by large, complex systems, especially in mission-critical domains, is intended to be the catalyst and the aggregation stimulus for

the overall event. After a through peer-review process, the CISIS 2016 International Program Committee selected 20 papers. In the case of 7th ICEUTE 2016, the International Program Committee selected 14 papers. Knowledge Management, Innovation and Big Data John Wiley & Sons Cape Town, South Africa, 7 Sept. 2016 – 8 Sept. 2016. Theme: Sustainable economies in

the information economy. Purpose: To share the quality academic papers presented at the International Conference on Business and Management Dynamics (ICBMD) held from 7 to 8 September 2016 at African Pride Crystal Hotel and Spa in Cape Town. As grey literature, the proceedings are the contributions made by researchers at the conference

and are considered the written record of the work that was presented to fellow conference delegates. Methodology: The methodology used varies from researcher to researcher but are suitable for the studies conducted. Thus, on the one hand, studies that were subjective in nature used the interpretive paradigm, where the qualitative approach adopted made

used of the interview method to collect data. On the other hand, studies that were objectively inclined adopted the positivist philosophy and used survey questionnaires to collect data. However, there were some academic papers which used mixed methodology because of the nature of the study. Whatever methodology used adhered to the ethos of the

philosophies underpinning the methodology. Contribution made to scholarship: The articles come from individual researchers and each article in the proceedings is unique. Mostly, there is no general argument leading from one contribution to the next. However, it is interesting to note that in the area of economic performance it was evident that real exchange rate and net

foreign direct investment contribute more towards innovations in economic growth. With regard to human capital development, papers presented evidence that there exists a definite need to explore the phenomenon of personal branding as limited scientific academic research has been done within the field of personal branding or on elements of the topic. Thus, the outcome

argues that personal branding has an influence on leadership style which in turn impacts on organisational performance and related hygiene factors. Furthermore, it was demonstrated that current methods or strategies for enforcing institutionalisation of knowledge sharing within an organisation have not been successful, and, as such, new strategies are needed to reinforce

efforts to nurture and invigorate the institutionalisation of knowledge sharing within an organisation. With regard to technology and big data impact on organisational performance, it was evident that system performance, memory consumption and CPU utilisation can be used as criteria to compare and evaluate big data technologies to improve organisational performance. Most of the

articles' contribution reemphasised technology education and training as a means of digitising business and improving effectiveness. Target audience: The target readership is academic researchers and business leaders who require access to the latest developments in the fields of economics, information management, business, education, development studies, social sciences and technology. It

is also for policymakers and other stakeholders who need a better understanding of the impact of new developments on existing policies and regulations for their review or amendment. International Joint Conference SOCO'16- CISIS'16- ICEUTE'16 Springer This IBM® Redpaper™ provides a reference architecture, based on Apache Hadoop, to help businesses

gain control over their data, meet tight service level agreements (SLAs) around their data applications, and turn data-driven insight into effective action. Big Data Networked Storage Solution for Hadoop delivers the capabilities for ingesting, storing, and managing large data sets with high reliability. IBM InfoSphere® Big Insights™ provides an innovative analytics platform that

processes and analyzes all types of data to turn large complex data into insight. IBM InfoSphere BigInsights brings the power of Hadoop to the enterprise. With built-in analytics, extensive integration capabilities, and the reliability, security and support that you require, IBM can help put your big data to work for you. This IBM Redpaper publication provides basic guidelines and best practices

for how to size and configure Big Data Networked Storage Solution for Hadoop. *Network Security Through Data Analysis* John Wiley & Sons Artificial intelligence (AI) and knowledge management can create innovative digital solutions and business opportunities in Asia from circular and green economies to technological disruption, innovation, and smart cities. It is essential to understand the impact and importance of AI and knowledge management within the digital economy for future development and for fostering the best practices within 21st century businesses. *The Handbook of Research on Artificial Intelligence and Knowledge Management in Asia's Digital Economy* offers conceptual frameworks, empirical studies, and case studies that help to understand the latest developments in artificial intelligence and knowledge management, as well as its potential for digital transformation and business opportunities in Asia. Covering topics such as augmented reality. Convolutional neural networks, and digital transformation , this major reference work generates

enriching debate on the challenges and opportunities for economic growth and inclusion in the region among business executives and leaders, IT managers, policymakers, government officials, students and educators of higher education, researchers, and academicians. *The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies*

IGI Global
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. **Managing and Processing Big Data in Cloud Computing** Springer The best-selling author of Big Data is back, this time with a unique and in-depth insight into how specific companies use big data. Big data is on

the tip of everyone's tongue. Everyone understands its power and importance, but many fail to grasp the actionable steps and resources required to utilise it effectively. This book fills the knowledge gap by showing how major companies are using big data every day, from an up-close, on-the-ground perspective. From technology, media and retail, to sport teams,

government agencies and financial institutions, learn the actual strategies and processes being used to learn about customers, improve manufacturing , spur innovation, improve safety and so much more. Organised for easy dip-in navigation, each chapter follows the same structure to give you the information you need quickly. For each company profiled, learn what data was

used, what problem it solved and the processes put it place to make it practical, as well as the technical details, challenges and lessons learned from each unique scenario. Learn how predictive analytics helps Amazon, Target, John Deere and Apple understand their customers Discover how big data is behind the success of Walmart, LinkedIn, Microsoft and

more Learn how big data is changing medicine, law enforcement, hospitality, fashion, science and banking Develop your own big data strategy by accessing additional reading materials at the end of each chapter *Big Data Made Easy* CRC Press 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
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storage and management.

Big Data Management

CRC Press

The world is witnessing the growth of a global movement facilitated by technology and social media. Fueled by information, this movement contains enormous potential to create more accountable, efficient, responsive, and effective governments and businesses, as well as spurring

economic growth. Big Data Governance and Perspectives in Knowledge Management is a collection of innovative research on the methods and applications of applying robust processes around data, and aligning organizations and skillsets around those processes. Highlighting a range of topics including data analytics, prediction analysis, and software development,

this book is ideally designed for academicians, researchers, information science professionals, software developers, computer engineers, graduate-level computer science students, policymakers, and managers seeking current research on the convergence of big data and information governance as two major trends in information management.