Big Data Tipping Point Tdwi Transforming Data With

Praise for Successful Business Intelligence "If you want to be an analytical competitor, you've got to go well beyond business intelligence technology. Cindi Howson has wrapped up the needed advice on technology, organization, strategy, and even culture in a neat package. It's required reading for quantitatively oriented strategists and the technologists who support them." --Thomas H. Davenport, President's Distinguished Professor, Babson College and co-author, Competing on Analytics "When used strategically, business intelligence can help companies transform their organization to be more agile, more competitive, and more profitable. Successful Business Intelligence offers valuable guidance for companies looking to embark upon their first BI project as well as those hoping to maximize their current deployments." --John Schwarz, CEO, Business Objects "A thoughtful, clearly written, and carefully researched examination of all facets of business intelligence that your organization needs to know to run its business more intelligently and exploit information to its fullest extent." --Wayne Eckerson, Director, TDWI Research "Using real-world examples, Cindi Howson shows you how to use business intelligence to improve the performance, and the quality, of your company." --Bill Baker, Distinguished Engineer & GM, Business Intelligence Applications, Microsoft Corporation "This book outlines the key steps to make BI an integral part of your company's culture and demonstrates how your company can use BI as a competitive differentiator." --Robert VanHees, CFO, Corporate Express "Given the trend to expand the business analytics user base, organizations are faced with a number of challenges that affect the success rate of these projects. This insightful book provides practical advice on improving that success rate." --Dan Vesset, Vice President, Business Analytics Solution Research, IDC

A comprehensive guide for seasoned business leaders who struggle with where and how to exploit the economics of data and analytics to gain true value from data, accelerate company operations through AI, and guide their digital transformation.

Data Warehousing in the Age of the Big Data will help you and your organization make the most of unstructured data with your existing data warehouse. As Big Data continues to revolutionize how we use data, it doesn't have to create more confusion. Expert author Krish Krishnan helps you make sense of how Big Data fits into the world of data warehousing in clear and concise detail. The book is presented in three distinct parts. Part 1 discusses Big Data, its technologies and use cases from early adopters. Part 2 addresses data warehousing, its shortcomings, and new architecture options, workloads, and integration techniques for Big Data and the data warehouse. Part 3 deals with data governance, data visualization, information life-cycle management, data scientists, and implementing a Big Data–ready data warehouse. Extensive appendixes include case studies from vendor implementations and a special segment on how we can build a healthcare information factory. Ultimately, this book will help you navigate through the complex layers of Big Data and data warehousing while providing you information on how to effectively think about using all these technologies and the architectures to design the next-generation data warehouse. Learn how to leverage Big Data by effectively integrating it into your data warehouse. Includes real-world examples and use cases that clearly demonstrate Hadoop, NoSQL, HBASE, Hive, and other Big Data technologies Understand how to optimize and tune your current data warehouse infrastructure and integrate newer infrastructure matching data processing workloads and requirements

This book adopts a multidimensional approach to explain current practices and trends in facility management. Presenting both research and practical insights from around the globe and providing definitions, examples and case studies, it allows readers to gain an understanding of corporate real estate, as well as asset, property, and facility management in the context of digital transformation, sustainability practice and process optimisation. The authors also discuss the latest trends in workplace management, the use of emerging technologies to optimise provision of facility services, and change management to implement new processes and reporting. A good mix of theory and practice, including a diverse set of examples, provide a constructive learning experience to the reader.

The Predictive Casino is a casino that utilizes the latest technological developments to connect with its customers to deliver an exceptional personalized experience that will keep them coming back. Today, technology such as AI, Machine Learning, Augmented Reality, facial recognition, IoT, Real-time stream processing, social media, and wearables are altering the Customer Experience (CX) landscape and casino operators need to jump aboard this fast moving technology or run the risk of being left out in the cold. The Predictive Casino reveals how these and other technologies can help shape the customer journey as well as provide insights into every facet of the business. The book details how the five types of analytics-descriptive, diagnostic, predictive, prescriptive, and edge analytics-affect not only the customer journey, but also just about every department in a casino operation. Facial recognition technology can spot a customer stepping onto a casino bus at the Macau/China border and that can set off alerts which will notify he necessary departments, where that is a host on the floor, a restaurant manager, a dealer, or even the hotel's GM should the player be a high-end VIP. A whole other sequence of events can get triggered as the player's favorite table is prepared, his favorite meal is cooked, and his or her Theo gets added to a real-time table games revenue management model that takes into account his personal play. Labor needs are also considered and alerts can be sent to the required or unneeded staff. An IoT connected casino can make its operations smart. Connected devices can help with inventory optimization, supply chain management, labor management, and waste management. With machine learning algorithms, data centers can be kept green and their energy use smart. For a casino operator, social media is no longer a vanity platform, but rather a place to both connect with current customers as well as court new ones. It is also a powerful branding channel that can be utilized to both understand a casino's position in the market, as well as a place to benchmark its position against its competitors. Today, technology moves at break-neck speed and it can offer the power of deep customer understanding and insight, but it also comes with a confusing variety of technology and technological terms--Big Data, Cognitive Computing, CX, Data Lakes, Hadoop, Kafka, Personalization, Spark, etc., etc. The Predictive Casino will help make sense of it all, so that a casino executive can cut through the confusing clutters of technological jargons and understand why a Spark-based real-time stream processing data stream might be preferable over a TIBCO Streambase one, or an even IBM InfoSphere one. Or maybe not. This book will help casino executives break through the technological clutter so that they can deliver an unrivaled customer experience to each and every patron coming through their doors.

Today's customers want it all and they want it now: innovation, speed, agility, and value. How can you drive operational excellence, stimulate growth, and accelerate idea-to-value innovation

throughout your enterprise? Shingo Prize-winning author Steve Bell, joined by other thought leaders, offers useful insights and examples you can start using now. Run Grow Transform takes the next logical step to driving enterprise value. This could be the game-changing playbook for IT 3.0. -Mark Katz, CIO & Senior Vice President, Esselte Corporation A powerful read detailing how companies can leverage their Lean IT transformation to supercharge the business. -Tom Paider, IT Build Capability Leader, Nationwide The consistent application of the practices described in this book has enabled Embraer to reap huge gains. I recommend this book as a desktop companion. -Alexandre Baule, Vice President Information Systems, Embraer Run Grow Transform takes the reader a leap forward, ready for immediate application to bridge Lean and innovation. -Melissa Barrett, Enterprise Architecture & IT Strategy, Premera Blue Cross This book focuses on the most critical and challenging issue for any aspect of the development or use of IT: creating a collaborative learning culture. -Jeffrey K. Liker, Shingo Prize-Winning Author of The Toyota Way Run Grow Transform sets out the principles and practices necessary for success in the new economy. -Jez Humble, author of Continuous Delivery Steve Bell has hit another home run with this book. Either your organization will adopt the wisdom contained in this book and thrive, or your competitors will do so and put you out of business. -Scott Ambler, author Disciplined Agile Delivery and 19 other books It's rare to see truly new insight added to the Lean discussion. Steve Bell does just that by continuing to push the frontiers of Lean thinking. -Alexander Brown, COO, Scrum Inc. A powerful read detailing how companies can leverage their Lean IT transformation to supercharge the business. -Tom Paider, IT Build Capability Leader, Nationwide Steve Bell has mapped a new trajectory. I challenge any CIO to read Bell's breakthrough work and not be compelled to start this journey to become a transformative leader in the creation of real and sustainable value. -Jeffrey Barnes, Society for Information Management (SIM), Regional Director, Advanced Practices Council All too often the IT organization is viewed as an impediment to lean transformation, when it truly can be a catalyst. Steve's book sorts out all the noise, the jargon, and the "hero culture", guiding the reader to what is so obvious, yet so hard to see: build your culture around your customer! -Josh Rapoza, Director of Web Strategy and Operations, Lean Enterprise Institute Aligning Lean and IT is a great challenge with a big payoff. This book really shows how Lean and IT can create a strong enterprise; it's a great inspiration. -Klaus Lyck Petersen, Solar A/S A must read for any organization that is pursuing continuous improvement. In today's world, real business improvement cannot be achieved without the IT factor; this book will help any organization achieve the improvement that they are seeking. -Barry J. Brunetto, Vice President, Information Systems, Blount International Precise, concise, and entertaining, this book provides the reader with crucial tips on how IT can help enterprises survive and thrive in a fast-paced technological and economic environment. This is mandatory reading not only for businesses and IT organizations, but also for universities and policy makers. -Fuat Alican, PhD, Vice President, Central American Scientific Research and Education Center Not just for Lean Practitioners, Run Grow Transform is a must-have reference for any IT organization, regardless of size, age or industry, looking to move to the next level of performance. -Sarah Topham, Lean Deployment Leader, Information Technology & Product Management, Paychex, Inc. This is a long overdue book that addresses the key challenges for today's IT organization and puts Lean IT into a context that is too often lacking. -James Finister, Tata Consultancy Services The 'business as usual' scenario is not an option in today's economy and global challenges. A transformation in methods, tools and frameworks is needed to guide our business decisions. This book is your first step! -Khuloud Odeh, IT Director, Grameen Foundation Delivering beyond the helpful folk wisdom and narrow techniques and technologies found elsewhere, Steve Bell and his contributors provide practical full value stream lifecycle methods for continuous improvement using Lean in an IT and customer (business) setting. -Martin Erb, Director of Professional Services, Pink Elephant Run Grow Transform clarifies the eternal quest of IT: to simply "running" of the business and to create innovative solutions to grow the business and create sustainable competitive advantage to transform the way customers interact with your business, in plain, actionable advice from one who has been on the front lines. -Tom Foco, Value Stream Solution

Let Hadoop For Dummies help harness the power of your data and rein in the information overload Big data has become big business, and companies and organizations of all sizes are struggling to find ways to retrieve valuable information from their massive data sets with becoming overwhelmed. Enter Hadoop and this easy-to-understand For Dummies guide. Hadoop For Dummies helps readers understand the value of big data, make a business case for using Hadoop, navigate the Hadoop ecosystem, and build and manage Hadoop applications and clusters. Explains the origins of Hadoop, its economic benefits, and its functionality and practical applications Helps you find your way around the Hadoop ecosystem, program MapReduce, utilize design patterns, and get your Hadoop cluster up and running quickly and easily Details how to use Hadoop applications for data mining, web analytics and personalization, large-scale text processing, data science, and problem-solving Shows you how to improve the value of your Hadoop cluster, maximize your investment in Hadoop, and avoid common pitfalls when building your Hadoop cluster From programmers challenged with building and maintaining affordable, scaleable data systems to administrators who must deal with huge volumes of information effectively and efficiently, this how-to has something to help you with Hadoop.

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.

The Predictive Retailer is a retail company that utilizes the latest technological developments to deliver an exceptional personalized experience to each and every customer. Today, technology such as AI, Machine Learning, Augmented Reality, IoT, Real-time stream processing, social media, and wearables are altering the Customer Experience (CX) landscape and retailers need to jump aboard this fast moving technology or run the risk of being left out in the cold. The Predictive Retailer reveals how these and other technologies can help shape the customer journey. The book details how the five types of analytics-descriptive, diagnostic, predictive, prescriptive, and edge analytics-affect not

only the customer journey, but also just about every operating function of the retailer. An IoT connected retailer can make its operations smart. Connected devices can help with inventory optimization, supply chain management, labor management, waste management, as well as keep the retailer's data centers green and its energy use smart. Social media is no longer a vanity platform, but rather it is a place to both connect with current customers as well as court new ones. It is also a powerful branding channel that can be utilized to both understand a retailer's position in the market, as well as a place to benchmark its position against its competitors. Today, technology moves at break-neck speed and it can offer the potential of anticipatory capabilities, but it also comes with a confusing variety of technological terms--Big Data, Cognitive Computing, CX, Data Lakes, Hadoop, Kafka, Personalization, Spark, etc., etc. The Predictive Retailer will help make sense of it all, so that a retail executive can cut through the confusing technological jargon and understand why a Spark-based real-time stream processing data stream might be preferable to a TIBCO Streambase one, or an IBM Streaming Analytics one. This book will help retail executives break through the technological clutter so that they can deliver an unrivaled customer experience to each and every patron that comes through their doors.
A key task that any aspiring data-driven organization needs to learn is data wrangling, the process of converting raw data into something truly useful. This practical guide provides business analysts with an overview of various data wrangling techniques and tools, and puts the practice of data wrangling into context by asking, "What are you trying to do and why?" Wrangling data consumes roughly 50-80% of an analyst's time before any kind of analysis is possible. Written by key executives at Trifacta, this book walks you through the wrangling process by exploring several factors--time, granularity, scope, and structure--that you need to consider as you begin to work with data. You'll learn a shared language and a comprehensive understanding of data wrangling, with an emphasis on recent agile analytic processes used by many of today's data-driven organizations. Appreciate the importance--and the satisfaction--of wrangling data the right way. Understand what kind of data is available Choose which data to use and at what level of detail Meaningfully combine multiple sources of data Decide how to distill the results to a size and shape that can drive downstream analysis
For courses in decision support systems, computerized decision-making tools, and management support systems. Market-leading guide to modern analytics, for better business decisionsAnalytics, Data Science, & Artificial Intelligence: Systems for Decision Support is the most comprehensive introduction to technologies collectively called analytics (or business analytics) and the fundamental methods, techniques, and software used to design and develop these systems. Students gain inspiration from examples of organisations that have employed analytics to make decisions, while leveraging the resources of a companion website. With six new chapters, the 11th edition marks a major reorganisation reflecting a new focus -- analytics and its enabling technologies, including AI, machine-learning, robotics, chatbots, and IoT.
For courses on Business Intelligence or Decision Support Systems. A managerial approach to understanding business intelligence systems. To help future managers use and understand analytics, Business Intelligence provides students with a solid foundation of BI that is reinforced with hands-on practice.
This is a step-by-step tutorial that deals with Microsoft Server 2012 reporting tools:SSRS and Power View. If you are a BI developer, consultant, or architect who wishes to learn how to use SSRS and Power View, and want to understand the best use for each tool, then this book will get you up and running quickly. No prior experience is required with either tool!
There is an ongoing data explosion transpiring that will make previous creations, collections, and storage of data look trivial. Big Data, Mining, and Analytics: Components of Strategic Decision Making ties together big data, data mining, and analytics to explain how readers can leverage them to extract valuable insights from their data. Facilitati
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.
This book constitutes the refereed proceedings of the 14th IFIP WG 9.4 International Conference on Social Implications of Computers in Developing Countries, ICT4D 2017, held in Yogyakarta, Indonesia, in May 2017. The 60 revised full papers and 8 short papers presented together with 3 keynotes were carefully reviewed and selected from 118 submissions. The papers are organized in the following topical sections: large scale and complex information systems for development; women empowerment and gender justice; social mechanisms of ICT-enabled development; the data revolution and sustainable development goals; critical perspectives on ICT and open innovation for development; the contribution of practice theories to ICT for development; agile development; indigenous local community grounded ICT developments; global sourcing and

development; sustainability in ICT4D; and information systems development and implementation in Southeast Asia. Also included are a graduate student track, current issues and notes. The chapter 'An Analysis of Accountability Concepts for Open Development' is open access under a CC BY 4.0 license via link.springer.com.

DB2 Version 8" represents a significant release in DB2Us history. This book is organized into topics such as Performance Enhancements, Manageability Enhancements, etc. Each section presents the new features in Version 8, and gives details about the new features, gotchas, tips, and tricks.

The Encyclopedia of electronic Human Resource Management is a comprehensive research-based reference resource with about seventy entries on core e-HRM areas and key concepts. From electronic selection to HR analytics, from e-HRM implementation to HRIS cultural differences - each entry reflects the views of an expert in the field. Each entry provides a list of references and further reading to enable the reader to gain a deeper awareness and understanding of each topic. The book aims to formalize and up-date, to inform and connect the different topics and scholars from the multiple disciplines, who conduct research into e-HRM. This book will be useful for academic researchers, HR practitioners and students.

"The book goes deeper below the disrupted surface of this phenomenon of banking transformation, and provides clear insights about what happens in its cavities, where digitalization is teaming up with demographic changes and social media connectivity forcing established economic interests to collide with social transformations"--

This book offers a practical solution for every organization that needs to monitor the effectiveness of their risk management. Written by a practising Chief Risk Officer, Risk Maturity Models enables you to build confidence in your organization's risk management process through a tailored risk maturity model that lends itself to benchmarking. This is a management tool that is easy to design, practical and powerful, which can baseline and self-improve the maturity capabilities needed to deliver ERM benefits over time. This book guides the reader through comparing and tailoring a wealth of existing models, methods and reference standards and codes (such as ISO 31000 and COSO ERM). Covering 60 risk-related maturity models in clear comparison format, it helps risk professionals to select the approach best suited to their circumstances, and even design their own model. Risk Maturity Models provides focused messages for the risk management function, the internal audit function, and the Board. Combining proven practice and insight with realistic practitioner scenarios, this is essential reading for every risk, project, audit and board professional who wants to move their organization up the risk maturity curve.

This book reports on the latest advances in mobile technologies for collecting, storing and processing mobile big data in connection with wireless communications. It presents novel approaches and applications in which mobile big data is being applied from an engineering standpoint and addresses future theoretical and practical challenges related to the big data field from a mobility perspective. Further, it provides an overview of new methodologies designed to take mobile big data to the Cloud, enable the processing of real-time streaming events on-the-move and enhance the integration of resource availability through the 'Anywhere, Anything, Anytime' paradigm. By providing both academia and industry researchers and professionals with a timely snapshot of emerging mobile big data-centric systems and highlighting related pitfalls, as well as potential solutions, the book fills an important gap in the literature and fosters the further development in the area of mobile technologies for exploiting mobile big data.

Modern businesses generate huge volumes of accounting data on a daily basis. The recent advancements in information technology have given organizations the ability to capture and store data in an efficient and effective manner. However, there is a widening gap between this data storage and usage of the data. Business intelligence techniques can help an organization obtain and process relevant accounting data quickly and cost efficiently. Such techniques include: query and reporting tools, online analytical processing (OLAP), statistical analysis, text mining, data mining, and visualization. Business Intelligence Techniques is a compilation of chapters written by experts in the various areas. While these chapters stand on their own, taken together they provide a comprehensive overview of how to exploit accounting data in the business environment.

Boost your Big Data IQ! Gain insight into how to govern and consume IBM's unique in-motion and at-rest Big Data analytic capabilities Big Data represents a new era of computing—an inflection point of opportunity where data in any format may be explored and utilized for breakthrough insights—whether that data is in-place, in-motion, or at-rest. IBM is uniquely positioned to help clients navigate this transformation. This book reveals how IBM is infusing open source Big Data technologies with IBM innovation that manifest in a platform capable of "changing the game." The four defining characteristics of Big Data—volume, variety, velocity, and veracity—are discussed. You'll understand how IBM is fully committed to Hadoop and integrating it into the enterprise. Hear about how organizations are taking inventories of their existing Big Data assets, with search capabilities that help organizations discover what they could already know, and extend their reach into new data territories for unprecedented model accuracy and discovery. In this book you will also learn not just about the technologies that make up the IBM Big Data platform, but when to leverage its purpose-built engines for analytics on data in-motion and data at-rest. And you'll gain an understanding of how and when to govern Big Data, and how IBM's industry-leading InfoSphere integration and governance portfolio helps you understand, govern, and effectively utilize Big Data. Industry use cases are also included in this practical guide.

UPGRADE TO THE NEW GENERATION OF DATABASE SOFTWARE FOR THE ERA OF BIG DATA! If big data is an untapped natural resource, how do you find the gold hidden within? Leaders realize that big data means all data, and are moving quickly to extract more value from both structured and unstructured application data. However, analyzing this data can prove costly and complex, especially while protecting the availability, performance and reliability of essential business applications. In the new era of big data, businesses require data systems that can blend always-available transactions with speed-of-thought analytics. DB2 10.5 with BLU Acceleration provides this speed, simplicity, and affordability while making it easier to build next-generation applications with NoSQL features, such as a mongo-styled JSON document store, a graph store, and

more. Dynamic in-memory columnar processing and other innovations deliver faster insights from more data, and enhanced pureScale clustering technology delivers high-availability transactions with application-transparent scalability for business continuity. With this book, you'll learn about the power and flexibility of multiworkload, multi-platform database software. Use the comprehensive knowledge from a team of DB2 developers and experts to get started with the latest DB2 trial version you can download at ibm.com/developerworks/downloads/im/db2/. Stay up to date on DB2 by visiting ibm.com/db2/.

How can we structure class time efficiently? How can we explain and lecture effectively? How can we help students master content? How can we make learning more real and lasting? In this revised and greatly expanded 2nd edition of Inspiring Active Learning, educators Merrill Harmin and Melanie Toth provide answers to our fundamental teaching questions and show us how to transform our classrooms into communities of active, responsible learners. The authors present an array of research-based, teacher-tested strategies for managing our everyday responsibilities--from beginning a class to grading homework, from instructing large groups to promoting diligent seatwork, from motivating slackers to handling disrupters. These strategies focus on mutual respect, not bossiness; collaboration, not isolation; commitment to learning, not fear of failure; and the dignity of all, not praise or rewards for a few. Regardless of our level of experience or the grade or subject we teach, the active-learning approach helps us * Perform routine teaching tasks more easily. * Discover a higher level of teaching success and personal satisfaction. * Establish a class climate of full participation and cooperation. * Prepare engaging lessons that keep students productively involved. * Encourage students to work energetically, willingly, and intelligently each day. * Inspire all students, even the most challenging, to strive for excellence. With its detailed classroom examples and more than 250 practical strategies, Inspiring Active Learning is a comprehensive reference for solving almost any teaching problem.

As the most comprehensive reference work dealing with knowledge management (KM), this work, consisting of 2 volumes, is essential for the library of every KM practitioner, researcher, and educator. Written by an international array of KM luminaries, its approx. 60 chapters approach knowledge management from a wide variety of perspectives ranging from classic foundations to cutting-edge thought, informative to provocative, theoretical to practical, historical to futuristic, human to technological, and operational to strategic. Novices and experts alike will refer to the authoritative and stimulating content again and again for years to come.

Without a data strategy, the people within an organization have no guidelines for making decisions that are absolutely crucial to the success of the IT organization and to the entire organization. The absence of a strategy gives a blank check to those who want to pursue their own agendas, including those who want to try new database management systems, new technologies (often unproven), and new tools. This type of environment provides no hope for success. Data Strategy should result in the development of systems with less risk, higher quality systems, and reusability of assets. This is key to keeping cost and maintenance down, thus running lean and mean. Data Strategy provides a CIO with a rationale to counter arguments for immature technology and data strategies that are inconsistent with existing strategies. This book uses case studies and best practices to give the reader the tools they need to create the best strategy for the organization.

Organizations today have access to vast stores of data that come in a wide variety of forms and may be stored in places ranging from file cabinets to databases, and from library shelves to the Internet. The enormous growth in the quantity of data, however, has brought with it growing problems with the quality of information, further complicated by the struggles many organizations are experiencing as they try to improve their systems for knowledge management and organizational memory. Failure to manage information properly, or inaccurate data, costs businesses billions of dollars each year. This volume presents cutting-edge research on information quality. Part I seeks to understand how data can be measured and evaluated for quality. Part II deals with the problem of ensuring quality while processing data into information a company can use. Part III presents case studies, while Part IV explores organizational issues related to information quality. Part V addresses issues in information quality education.

This comprehensive book provides students with a "grand tour" of the tools needed to measure digital activity and implement best practices for using data to inform marketing strategy. It is the first text of its kind to introduce students to analytics platforms from a practical marketing perspective. Demonstrating how to integrate large amounts of data from web, digital, social, and search platforms, this helpful guide offers actionable insights into data analysis, explaining how to "connect the dots" and "humanize" information to make effective marketing decisions. The author covers timely topics, such as social media, web analytics, marketing analytics challenges, and dashboards, helping students to make sense of business measurement challenges, extract insights, and take effective actions. The book's experiential approach, combined with chapter objectives, summaries, and review questions, will engage readers, deepening learning by helping them to think outside the box. Filled with engaging, interactive exercises, and interesting insights from an industry expert, this book will appeal to students of digital marketing, online marketing, and analytics. A companion website features an instructor's manual, test bank, and PowerPoint slides.

This book examines the managerial dimensions of business intelligence (BI) systems. It develops a set of guidelines for value creation by implementing business intelligence systems and technologies. In particular the book looks at BI as a process - driven by a mix of human and technological capabilities - to serve complex information needs in building insights and providing aid in decision making. After an introduction to the key concepts of BI and neighboring areas of information processing, the book looks at the complexity and multidimensionality of BI. It tackles both data integration and information integration issues. Bodies of knowledge and other widely accepted collections of experience are presented and turned into lessons learned. Following a straightforward introduction to the processes and technologies of BI the book embarks on BI maturity and

agility, the components, drivers and inhibitors of BI culture and soft BI factors like attention, sense and trust. Eventually the book attempts to provide a holistic view on business intelligence, possible structures and tradeoffs and embarks to provide an outlook on possible developments in BI and analytics. .

Artificial Intelligence in Precision Health: From Concept to Applications provides a readily available resource to understand artificial intelligence and its real time applications in precision medicine in practice. Written by experts from different countries and with diverse background, the content encompasses accessible knowledge easily understandable for non-specialists in computer sciences. The book discusses topics such as cognitive computing and emotional intelligence, big data analysis, clinical decision support systems, deep learning, personal omics, digital health, predictive models, prediction of epidemics, drug discovery, precision nutrition and fitness. Additionally, there is a section dedicated to discuss and analyze AI products related to precision healthcare already available. This book is a valuable source for clinicians, healthcare workers, and researchers from diverse areas of biomedical field who may or may not have computational background and want to learn more about the innovative field of artificial intelligence for precision health. Provides computational approaches used in artificial intelligence easily understandable for non-computer specialists Gives know-how and real successful cases of artificial intelligence approaches in predictive models, modeling disease physiology, and public health surveillance Discusses the applicability of AI on multiple areas, such as drug discovery, clinical trials, radiology, surgery, patient care and clinical decision support

Big data are changing the way we work. This book conveys a theoretical understanding of big data and the related interactions on a socio-technological level as well as on the organizational level. Big data challenge the human resource department to take a new role. An organization's new competitive advantage is its employees augmented by big data.

By implementing a comprehensive data analytics program, utility companies can meet the continually evolving challenges of modern grids that are operationally efficient, while reconciling the demands of greenhouse gas legislation and establishing a meaningful return on investment from smart grid deployments.Readable and accessible, Big Data Analytic

This book presents and discusses the main strategic and organizational challenges posed by Big Data and analytics in a manner relevant to both practitioners and scholars. The first part of the book analyzes strategic issues relating to the growing relevance of Big Data and analytics for competitive advantage, which is also attributable to empowerment of activities such as consumer profiling, market segmentation, and development of new products or services. Detailed consideration is also given to the strategic impact of Big Data and analytics on innovation in domains such as government and education and to Big Data-driven business models. The second part of the book addresses the impact of Big Data and analytics on management and organizations, focusing on challenges for governance, evaluation, and change management, while the concluding part reviews real examples of Big Data and analytics innovation at the global level. The text is supported by informative illustrations and case studies, so that practitioners can use the book as a toolbox to improve understanding and exploit business opportunities related to Big Data and analytics.

Managing Digital EnterpriseTen Essential TopicsSpringer

Big Data in a nutshell: It is the ability to retain, process, and understand data like never before. It can mean more data than what you are using today; but it can also mean different kinds of data, a venture into the unstructured world where most of today's data resides. In this book you will learn how cognitive computing systems, like IBM Watson, fit into the Big Data world. Learn about the concept of data-in-motion and InfoSphere Streams, the world's fastest and most flexible platform for streaming data. Capturing, storing, refining, transforming, governing, securing, and analyzing data are important topics also covered in this book.

business intelligence, big data, business modeling, vivification, data integration, information extraction, information visualization

This book focuses on the analytic principles of business practice and big data. Specifically, it provides an interface between the main disciplines of engineering/technology and the organizational and administrative aspects of management, serving as a complement to books in other disciplines such as economics, finance, marketing and risk analysis. The contributors present their areas of expertise, together with essential case studies that illustrate the successful application of engineering management theories in real-life examples.

This book describes the setup of digital enterprises and how to manage them, focusing primarily on the important knowledge and essential understanding of digital enterprise management required by managers and decision makers in organizations. It covers ten essential knowledge areas of this field: • Foundation of Digital Enterprise • Technology Foundation and Talent Management for Digital Enterprise • Digital Enterprise Strategy Planning and Implementation • B2C Digital Enterprise: E-tailing • B2C Digital Enterprise: E-Services • B2B Digital Enterprise and Supply Chain • Digital Platforms • Digital Marketing and Advertising • Digital Payment Systems • Mobile Enterprise Overall, this text provides the reader with the basics to understand the rapid development of digitization, facilitated by the dramatic advancements in digital technologies, extensively connected networks, and wider adoption of computing devices (especially mobile devices), as more and more organizations are realizing the strategic importance of digitization (e.g., sustainable growth of the organization, competitive advantage development and enhancement) and are embarking on digital enterprise.

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