Big Data At Work Dispelling The Myths Uncovering The Opportunities

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.

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. When BIC, manufacturer of disposable ballpoint pens, wanted to grow, it looked for an idea beyond introducing new sizes and ink colors. Someone suggested lighters. LIGHTERS? With an idea that seemed crazy at first, that bright executive, instead of seeing BIC as a pen company—a business in the PEN "box"—figured out that there was growth to be found in the DISPOSABLE "box." And he was right. Now there are disposable BIC lighters, razors, even phones. The company opened its door to a host of opportunities. IT INVENTED A NEW BOX. Your business can, too. And simply thinking "out of the box" is not the answer. True ingenuity needs structure, hard analysis, and bold brainstorming. It needs to start THINKING IN NEW BOXES —a revolutionary process for sustainable creativity from two strategic innovation experts from The Boston Consulting Group (BCG). To make sense of the world, we all rely on assumptions, on models—on what Luc de Brabandere and Alan Iny call "boxes." If we are unaware of our boxes, they can blind us to risks and opportunities. This innovative book challenges everything you thought you knew about business creativity by breaking creativity down into five steps: ⬜ Doubt everything. Challenge your current perspectives. ⬜ Probe the possible. Explore options around you. ⬜ Diverge. Generate many new and exciting ideas, even if they seem absurd. ⬜ Converge. Evaluate and select the ideas that will drive breakthrough results. ⬜ Reevaluate. Relentlessly. No idea is a good idea forever. And did we mention Reevaluate? Relentlessly. Creativity is paramount if you are to thrive in a time of accelerating change. Replete with practical and potent creativity tools, and featuring fascinating case studies from BIC to Ford to Trader Joe's, Thinking in New Boxes will help you and your company overcome missed opportunities and stay ahead of the curve. This book isn't a simpleminded checklist. This is Thinking in New Boxes. And it will be fun. (We promise.) Praise for Thinking in New Boxes "Excellent . . . While focusing on business creativity, the principles in this book apply anywhere change is needed and will be of interest to anyone seeking to reinvent herself."—Blogcritics "Thinking in New Boxes is a five-step guide that leverages the authors' deep understanding of human nature to enable readers to overcome their limitations and both imagine and create their own futures. This book is a must-read for people living and working in today's competitive environment."—Ray O. Johnson, Ph.D., chief technology officer, Lockheed Martin "Thinking In New Boxes discusses what I believe to be one of the fundamental shifts all companies/brands need to be thinking about: how to think creatively, in order to innovate and differentiate our brands. We need to thrive and lead in a world of accelerating change and this book challenges us to even greater creativity in our thinking. One of the best business books I've read in a long time."—Jennifer Fox, CEO, Fairmont Hotels & Resorts "As impressive as teaching new tricks to old dogs, Thinking in New Boxes is both inspirational and practical—a comprehensive, step-by-step guide to sharpening one's wits in order to harness creativity in the workplace."—Peter Gelb, general manager, Metropolitan Opera

Technological advancements in computing have changed how data is leveraged by businesses to develop, grow, and innovate. In recent years, leading analytical companies have begun to realize the value in their vast holdings of customer data and have found ways to leverage this untapped potential. Now, more firms are following suit and looking to monetize Big Data for big profits. Such changes will have implications for both businesses and consumers in the coming years. In From Big Data to Big Profits, Russell Walker investigates the use of Big Data to stimulate innovations in operational effectiveness and business growth. Walker examines the nature of Big Data and how businesses can use it to create new monetization opportunities. Using case studies of Apple, Netflix, Google, LinkedIn, Zillow, Amazon, and other leaders in the use of Big Data, Walker explores how digital platforms such as mobile apps and social networks are changing the nature of customer interactions and the way Big Data is created and used by companies. Such changes, as Walker points out, will require careful consideration of legal and unspoken business practices as they affect consumer privacy. Companies looking to develop a Big Data strategy will find great value in the SIGMA framework, which he has developed to assess companies for Big Data readiness and provide direction on the steps necessary to get the most from Big Data. Rigorous and meticulous, From Big Data to Big Profits is a valuable resource for students, researchers, and professionals with an interest in Big Data, digital platforms, and analytics

Realizing the Promise of Enterprise Systems

Big Data in Organizations and the Role of Human Resource Management

Analytics at Work

Thinking in New Boxes

Finding Security Insights, Patterns, and Anomalies in Big Data

Mission Critical

Data Smart

A Revolution that Will Transform how We Live, Work, and Think

"International Institute for Analytics"--Dust jacket.

Public Policy Analytics: Code & Context for Data Science in Government teaches readers how to address complex public policy problems with data and analytics using reproducible methods in R. Each of the eight chapters provides a detailed case study, showing readers: how to develop exploratory indicators; understand 'spatial process' and develop spatial analytics; how to develop 'useful' predictive analytics; how to convey these outputs to non-technical decision-makers through the medium of data visualization; and why, ultimately, data science and 'Planning' are one and the same. A graduate-

level introduction to data science, this book will appeal to researchers and data scientists at the intersection of data analytics and public policy, as well as readers who wish to understand how algorithms will affect the future of government.

Big data is a relative term describing a situation where the volume, velocity and variety of data exceed an organization's storage or compute capacity for accurate and timely decision making . Big data is not a single technology but a combination of old and new technologies that helps companies gain actionable insight. Therefore, big data is the capability to manage a huge volume of disparate data, at the right speed, and within the right time frame to allow real-time analysis and reaction. As we note earlier in this chapter, big data is typically broken down by three characteristics: Volume: How much data Velocity: How fast that data is processed Variety: The various types of data Although it's convenient to simplify big data into the three Vs, it can be misleading and overly simplistic. For example, you may be managing a relatively small amount of very disparate, complex data or you may be processing a huge volume of very simple data. That simple data may be all structured or all unstructured. Even more important is the fourth V: veracity. How accurate is that data in predicting business value? Do the results of a big data analysis actually make sense? Determining relevant data is key to delivering value from massive amounts of data. However, big data is defined less by volume - which is a constantly moving target - than by its ever-increasing variety, velocity, variability and complexity

Managerial styles are influenced by habit, familiarity, and workplace culture. It's no wonder that well-intentioned professionals doing their best to be good organizational leaders often repeat unhelpful supervisory practices experienced in their early careers, even if they disliked them at the time. In the DUH! Book of Management and Supervision, the author disagrees with many accepted leadership principles (unabashedly referring to them as myths) and makes new and different approaches easier to imagine. Her challenging and controversial concepts illustrated with poignant stories suggest common-sense and immediately applicable alternatives more suitable in today's workplace.

Getting in Front on Data

Big Data For Dummies

Big Data for Managers

Public Policy Analytics

Dispelling the Myths, Uncovering the Opportunities

Intelligence, Genes, and Success

Understanding the New Currency of Business

The AI Advantage

An accessible guide that breaks down the complex issues around mass surveillance and data privacy and explores the negative consequences it can have on individual citizens and their communities. No one is exempt from data mining: by owning a smartphone, or using social media or a credit card, we hand over private data to corporations and the government. We need to understand how surveillance and data collection operates in order to regain control over our digital freedoms—and our lives. Attorney and data privacy expert Heidi Boghosian unpacks widespread myths around the seemingly innocuous nature of surveillance, sets the record straight about what government agencies and corporations do with our personal data, and offers solutions to take back our information. "I Have Nothing to Hide" is both a necessary mass surveillance overview and a reference book. It addresses the misconceptions around tradeoffs between privacy and security, citizen spying, and the ability to design products with privacy protections. Boghosian breaks down misinformation surrounding 21 core myths about data privacy, including: • "Surveillance makes the nation safer." • "No one wants to spy on kids." • "Police don't monitor social media." • "Metadata doesn't reveal much about me." • "Congress and the courts protect us from surveillance." • "There's nothing I can do to stop surveillance." By dispelling myths related to surveillance, this book helps readers better understand what data is being collected, who is gathering it, how they're doing it, and why it matters.

You can measure practically anything in the age of social media, but if you don't know what you're looking for, collecting mountains of data won't yield a grain of insight. This non-technical guide shows you how to extract significant business value from big data with Ask-Measure-Learn, a system that helps you ask the right questions, measure the right data, and then learn from the results. Authors Lutz Finger and Soumitra Dutta originally devised this system to help governments and NGOs sift through volumes of data. With this book, these two experts provide business managers and analysts with a high-level overview of the Ask-Measure-Learn system, and demonstrate specific ways to apply social media analytics to marketing, sales, public relations, and customer management, using examples and case studies.

This is the single best book ever written on data quality. Clear, concise, and actionable. We all want to leverage our data resources to drive growth, but we too often ignore the fundamentals of data quality, which almost always inhibits our success. Tom lays out a clear path for each organization to holistically improve not only its data quality, but more importantly the performance of its business as a whole. —Jeffrey G. McMillan, Chief Analytics and Data Officer, Morgan Stanley This book lays out the roles everyone, up and down the organization chart, can and must play to ensure that data is up to the demands of its use, in day-in, day-out work, decision-making, planning, and analytics. By now, everyone knows that bad data extorts an enormous toll, adding huge (though often hidden) costs, and making it more difficult to make good decisions and leverage advanced analyses. While the problems are pervasive and insidious, they are also solvable! As Tom Redman, "the Data Doc," explains in Getting in Front on Data, the secret lies in getting the right people in the right roles to "get in front" of the management and social issues that lead to bad data in the first place. Everyone should see himself or herself in this book. We are all both data customers and data creators—after all, we use data created by others and create data used by others. And all of us must step up to these roles. As data customers, we must clarify our most important needs and communicate them to data creators. As data creators, we must strive to meet those needs by finding and eliminating the root causes of error. Getting in Front on Data proposes new roles for data professionals as: embedded data managers, in helping data customers and creators complete their work, DQ team leads, in connecting customers and creators, pulling the entire program together, and training people on their new roles, data maestros, in providing deep expertise on the really tough problems, chief data architects, in establishing common data definitions, and technologists, in increasing scale and decreasing unit cost. Getting in Front on Data introduces a new role, the data provocateur, the motive force in attacking data quality properly! This book urges everyone to unleash their inner provocateur. Finally, it crystallizes what senior leaders must do if their entire organizations are to enjoy the benefits of high-quality data! Data quality has always been

important. But now, in the growing digital economy where business transactions and customer experiences are automated and tailored, data quality is critical. This book comes just in time. —Maria C. Villar, Global Vice President, SAP America, Inc. Winning, and more importantly thriving, in the digital age requires more than stating "Data is a strategic corporate asset." Leaders and organizations need a plan of action to make the new vision a reality. Tom's latest book is a how-to for those seeking that reality. —Bob Palermo, Vice President, Performance Excellence, Shell Unconventionals Many, if not most, companies still struggle with their data. With his latest offering, Tom Redman sets out a path they can follow to Get in Front on Data. Based on his decades of experience working with many companies and individuals, this is the most practical guide around. A must read for data professionals, and especially data "provocateurs". —Ken Self, President IAIDQ This book offers a unique perspective on how to think about data and address Data Quality – offering practical guidance and useful instruction from the perspective of each stakeholder. The process – and processes – to go from business need to having the right quality data to address that need is no small task. —John Nicodemo, Global Leader, Data Quality, Dun & Bradstreet Getting in Front on Data is a clearly written survival handbook for the new data-driven economy. It is a "must read" for the employees of any organization expecting to remain relevant and competitive. The "Data Doc" has an extraordinary talent for explaining key concepts with simple examples and understandable analogies making it accessible to everyone in their organization regardless of their role. —John R. Talburt, Director of the Information Quality Graduate Program University of Arkansas at Little Rock

In today's fast growing digital world, the web, mobile, social networks and other digital platforms are producing enormous amounts of data that hold intelligence and valuable information. Correctly used it has the power to create sustainable value in different forms for businesses. The commonly used term for this data is Big Data, which includes structured, unstructured and hybrid structured data. However, Big Data is of limited value unless insightful information can be extracted from the sources of data. The solution is Big Data analytics, and how managers and executives can capture value from this vast resource of information and insights. This book develops a simple framework and a non-technical approach to help the reader understand, digest and analyze data, and produce meaningful analytics to make informed decisions. It will support value creation within businesses, from customer care to product innovation, from sales and marketing to operational performance. The authors provide multiple case studies on global industries and business units, chapter summaries and discussion questions for the reader to consider and explore. Big Data for Managers also presents small cases and challenges for the reader to work on – making this a thorough and practical guide for students and managers.

A Guide to Conversations for Todays Data Center
Creating Value
How to Monetize, Manage, and Measure Information as an Asset for Competitive Advantage
Your Guide to Understanding and Using Analytics
Success with Data and Analytics
Mobile Big Data
Dispelling Common Leadership Myths
Process Innovation

Cutting through the hype, a practical guide to using artificial intelligence for business benefits and competitive advantage. In The AI Advantage, Thomas Davenport offers a guide to using artificial intelligence in business. He describes what technologies are available and how companies can use them for business benefits and competitive advantage. He cuts through the hype of the AI craze—remember when it seemed plausible that IBM's Watson could cure cancer?—to explain how businesses can put artificial intelligence to work now, in the real world. His key recommendation: don't go for the "moonshot" (curing cancer, or synthesizing all investment knowledge); look for the "low-hanging fruit" to make your company more efficient. Davenport explains that the business value AI offers is solid rather than sexy or splashy. AI will improve products and processes and make decisions better informed—important but largely invisible tasks. AI technologies won't replace human workers but augment their capabilities, with smart machines to work alongside smart people. AI can automate structured and repetitive work; provide extensive analysis of data through machine learning ("analytics on steroids"), and engage with customers and employees via chatbots and intelligent agents. Companies should experiment with these technologies and develop their own expertise. Davenport describes the major AI technologies and explains how they are being used, reports on the AI work done by large commercial enterprises like Amazon and Google, and outlines strategies and steps to becoming a cognitive corporation. This book provides an invaluable guide to the real-world future of business AI. A book in the Management on the Cutting Edge series, published in cooperation with MIT Sloan Management Review.

The overflow of information generated during disasters can be as paralyzing to humanitarian response as the lack of information. This flash flood of information'social media, satellite imagery and more is often referred to as Big Data. Making sense of this data deluge during disasters is proving an impossible challenge for traditional humanitarian

The authors identified current, desired, and prospective data-enabled practices that the U.S. Department of Defense and the services might be able to deploy in their outreach and recruiting processes.

The amount of data in our world has been exploding, and analyzing large data sets—so called big data—will become a key basis of competition in business. Statisticians and researchers will be updating their analytic approaches, methods and research to meet the demands created by the availability of big data. The goal of this book is to show how advances in data science have the ability to fundamentally influence and improve organizational science and practice. This book is primarily designed for researchers and advanced undergraduate and graduate students in psychology, management and statistics.

Big Data Revolution
Using Social Media Analytics to Understand and Influence Customer Behavior
And 20 Other Myths About Surveillance and Privacy
What You Need to Know about Data Mining and Data-Analytic Thinking
From Big Data to Big Profits

The Duh! Book of Management and Supervision
How to Put the Artificial Intelligence Revolution to Work

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.

As a follow-up to the successful Competing on Analytics, authors Tom Davenport, Jeanne Harris, and Robert Morison provide practical frameworks and tools for all companies that want to use analytics as a basis for more effective and more profitable decision making. Regardless of your company's strategy, and whether or not analytics are your company's primary source of competitive differentiation, this book is designed to help you assess your organization's analytical capabilities, provide the tools to build these capabilities, and put analytics to work. The book helps you answer these pressing questions: What assets do I need in place in my organization in order to use analytics to run my business? Once I have these assets, how do I deploy them to get the most from an analytic approach? How do I get an analytic initiative off the ground in the first place, and then how do I sustain analytics in my organization over time? Packed with tools, frameworks, and all new examples, Analytics at Work makes analytics understandable and accessible and teaches you how to make your company more analytical.

Written by renowned data science experts Foster Provost and Tom Fawcett, Data Science for Business introduces the fundamental principles of data science, and walks you through the "data-analytic thinking" necessary for extracting useful knowledge and business value from the data you collect. This guide also helps you understand the many data-mining techniques in use today. Based on an MBA course Provost has taught at New York University over the past ten years, Data Science for Business provides examples of real-world business problems to illustrate these principles. You'll not only learn how to improve communication between business stakeholders and data scientists, but also how participate intelligently in your company's data science projects. You'll also discover how to think data-analytically, and fully appreciate how data science methods can support business decision-making. Understand how data science fits in your organization—and how you can use it for competitive advantage Treat data as a business asset that requires careful investment if you're to gain real value Approach business problems data-analytically, using the data-mining process to gather good data in the most appropriate way Learn general concepts for actually extracting knowledge from data Apply data science principles when interviewing data science job candidates

Go ahead, be skeptical about big data. The author was—at first. When the term "big data" first came on the scene, bestselling author Tom Davenport (Competing on Analytics, Analytics at Work) thought it was just another example of technology hype. But his research in the years that followed changed his mind. Now, in clear, conversational language, Davenport explains what big data means—and why everyone in business needs to know about it. Big Data at Work covers all the bases: what big data means from a technical, consumer, and management perspective; what its opportunities and costs are; where it can have real business impact; and which aspects of this hot topic have been oversold. This book will help you understand: • Why big data is important to you and your organization • What technology you need to manage it • How big data could change your job, your company, and your industry • How to hire, rent, or develop the kinds of people who make big data work • The key success factors in implementing any big data project • How big data is leading to a new approach to managing analytics With dozens of company examples, including UPS, GE, Amazon, United Healthcare, Citigroup, and many others, this book will help you seize all opportunities—from improving decisions, products, and services to strengthening customer relationships. It will show you how to put big data to work in your own organization so that you too can harness the power of this ever-evolving new resource.

A Primer, Fourth Edition
HBR Guide to Data Analytics Basics for Managers (HBR Guide Series)
Big Data Beyond the Hype
Scientists Respond to The Bell Curve
How Big Data Increases Inequality and Threatens Democracy
A Complex Systems Theory-Based Conceptualization
Thinking for a Living
Learning Pentaho Data Integration 8 CE

Many senior executives talk about information as one of their most important assets, but few behave as if it is. They report to the board on the health of their workforce, their financials, their customers, and their partnerships, but rarely the health of their information assets. Corporations typically exhibit greater discipline in tracking and accounting for their office furniture than their data. Infonomics is the theory, study, and discipline of asserting economic significance to information. It strives to apply both economic and asset management principles and practices to the valuation, handling, and deployment of information assets. This book specifically shows: CEOs and business leaders how to more fully wield information as a corporate asset CIOs how to improve the flow and accessibility of information CFOs how to help their organizations measure the actual and latent value in their information assets. More directly, this book is for the burgeoning force of chief data officers (CDOs) and other information and analytics leaders in their valiant struggle to help their organizations become more infosavvy. Author Douglas Laney has spent years researching and developing Infonomics and advising organizations on the infinite opportunities to monetize, manage, and measure information. This book delivers a set of new ideas, frameworks, evidence, and even approaches adapted from other disciplines on how to administer, wield, and understand the value of information. Infonomics can help organizations not only to better develop, sell, and market

their offerings, but to transform their organizations altogether. "Doug Laney masterfully weaves together a collection of great examples with a solid framework to guide readers on how to gain competitive advantage through what he labels "the unruly asset" – data. The framework is comprehensive, the advice practical and the success stories global and across industries and applications." Liz Rowe, Chief Data Officer, State of New Jersey "A must read for anybody who wants to survive in a data centric world." Shaun Adams, Head of Data Science, Betterbathrooms.com "Phenomenal! An absolute must read for data practitioners, business leaders and technology strategists. Doug's lucid style has a set a new standard in providing intelligible material in the field of information economics. His passion and knowledge on the subject exudes thru his literature and inspires individuals like me." Ruchi Rajasekhar, Principal Data Architect, MISO Energy "I highly recommend Infonomics to all aspiring analytics leaders. Doug Laney's work gives readers a deeper understanding of how and why information should be monetized and managed as an enterprise asset. Laney's assertion that accounting should recognize information as a capital asset is quite convincing and one I agree with. Infonomics enjoyably echoes that sentiment!" Matt Green, independent business analytics consultant, Atlanta area "If you care about the digital economy, and you should, read this book." Tanya Shuckhart, Analyst Relations Lead, IRI Worldwide
Don't let a fear of numbers hold you back. Today's business environment brings with it an onslaught of data. Now more than ever, managers must know how to tease insight from data--to understand where the numbers come from, make sense of them, and use them to inform tough decisions. How do you get started? Whether you're working with data experts or running your own tests, you'll find answers in the HBR Guide to Data Analytics Basics for Managers. This book describes three key steps in the data analysis process, so you can get the information you need, study the data, and communicate your findings to others. You'll learn how to: Identify the metrics you need to measure Run experiments and A/B tests Ask the right questions of your data experts Understand statistical terms and concepts Create effective charts and visualizations Avoid common mistakes
Exploit the power and potential of Big Data to revolutionizebusiness outcomes Big Data Revolution is a guide to improving performance,making better decisions, and transforming business through theeffective use of Big Data. In this collaborative work by an IBMVice President of Big Data Products and an Oxford Research Fellow,this book presents inside stories that demonstrate the power andpotential of Big Data within the business realm. Readers are guidedthrough tried-and-true methodologies for getting more out of data,and using it to the utmost advantage. This book describes the majortrends emerging in the field, the pitfalls and triumphs beingexperienced, and the many considerations surrounding Big Data, allwhile guiding readers toward better decision making from theperspective of a data scientist. Companies are generating data faster than ever before, andmanaging that data has become a major challenge. With the rightstrategy, Big Data can be a powerful tool for creating effectivebusiness solutions – but deep understanding is key whenapplying it to individual business needs. Big DataRevolution provides the insight executives need to incorporateBig Data into a better business strategy, improving outcomes withinnovation and efficient use of technology. Examine the major emerging patterns in Big Data Consider the debate surrounding the ethical use of data Recognize patterns and improve personal and organizationalperformance Make more informed decisions with quantifiable results In an information society, it is becoming increasingly importantto make sense of data in an economically viable way. It can drivenew revenue streams and give companies a competitive advantage,providing a way forward for businesses navigating an increasinglycomplex marketplace. Big Data Revolution provides expertinsight on the tool that can revolutionize industries.
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.
Code and Context for Data Science in Government
Competing on Analytics
Reengineering Work Through Information Technology
Information Security Analytics
Who Does What
Implementing Analytics
Police Power and the Video Revolution
What farmers, doctors and insurance agents teach us about discovering big data patterns
A renowned thought-leader and a professor of statistics team up to provide the essential tools for enhancing thinking and decision-making in today's workplace in order to be more competitive and successful. 25,000 first printing.
Information Security Analytics gives you insights into the practice of analytics and, more importantly, how you can utilize analytic techniques to identify trends and outliers that may not be possible to identify using traditional security analysis techniques. Information Security Analytics dispels the myth that analytics within the information security domain is limited to just security incident and event management systems and basic network analysis. Analytic techniques can help you mine data and identify

patterns and relationships in any form of security data. Using the techniques covered in this book, you will be able to gain security insights into unstructured big data of any type. The authors of Information Security Analytics bring a wealth of analytics experience to demonstrate practical, hands-on techniques through case studies and using freely-available tools that will allow you to find anomalies and outliers by combining disparate data sets. They also teach you everything you need to know about threat simulation techniques and how to use analytics as a powerful decision-making tool to assess security control and process requirements within your organization. Ultimately, you will learn how to use these simulation techniques to help predict and profile potential risks to your organization. Written by security practitioners, for security practitioners Real-world case studies and scenarios are provided for each analytics technique Learn about open-source analytics and statistical packages, tools, and applications Step-by-step guidance on how to use analytics tools and how they map to the techniques and scenarios provided Learn how to design and utilize simulations for "what-if" scenarios to simulate security events and processes Learn how to utilize big data techniques to assist in incident response and intrusion analysis

Thought provoking -Time Magazine Welcome to the attention economy, in which the new scarcest resource isn't ideas or talent, but attention itself. This groundbreaking book argues that today's businesses are headed for disaster-unless they overcome the dangerously high attention deficits that threaten to cripple today's workplace. Learn to manage this critical yet finite resource, or fail! "A worthy message" -Publishers Weekly AUTHORBIO: Thomas H. Davenport is the Director of the Accenture Institute for Strategic Change and author of Process Innovation and Working Knowledge, Harvard Business School Press. John C. Beck is an Associate Partner and Senior Research Fellow at the Accenture Institute for Strategic Change.

A scientific response to the best-selling The Bell Curve which set off a hailstorm of controversy upon its publication in 1994. Much of the public reaction to the book was polemic and failed to analyse the details of the science and validity of the statistical arguments underlying the books conclusion. Here, at last, social scientists and statisticians reply to The Bell Curve and its conclusions about IQ, genetics and social outcomes.

Optimize Performance, Process, and Decisions Through Big Data
Keeping Up with the Quants
A Roadmap from Models to Technologies
How Big Data Is Changing the Face of Humanitarian Response
Smarter Decisions, Better Results
Proof, Policing, Privacy, and Audiovisual Big Data
A New Paradigm for Business Creativity
Multivariate Statistical Methods

You have more information at hand about your business environment than ever before. But are you using it to "out-think" your rivals? If not, you may be missing out on a potent competitive tool. In Competing on Analytics: The New Science of Winning, Thomas H. Davenport and Jeanne G. Harris argue that the frontier for using data to make decisions has shifted dramatically. Certain high-performing enterprises are now building their competitive strategies around data-driven insights that in turn generate impressive business results. Their secret weapon? Analytics: sophisticated quantitative and statistical analysis and predictive modeling. Exemplars of analytics are using new tools to identify their most profitable customers and offer them the right price, to accelerate product innovation, to optimize supply chains, and to identify the true drivers of financial performance. A wealth of examples—from organizations as diverse as Amazon, Barclay's, Capital One, Harrah's, Procter & Gamble, Wachovia, and the Boston Red Sox—illuminate how to leverage the power of analytics.

Multivariate Statistical Methods: A Primer provides an introductory overview of multivariate methods without getting too deep into the mathematical details. This fourth edition is a revised and updated version of this bestselling introductory textbook. It retains the clear and concise style of the previous editions of the book and focuses on examples from biological and environmental sciences. The major update with this edition is that R code has been included for each of the analyses described, although in practice any standard statistical package can be used. The original idea with this book still applies. This was to make it as short as possible and enable readers to begin using multivariate methods in an intelligent manner. With updated information on multivariate analyses, new references, and R code included, this book continues to provide a timely introduction to useful tools for multivariate statistical analysis.

This is the first book on the policy questions raised by two revolutions in recording the police - copwatching and police-worn body cameras. This accessible book with compelling stories and coverage of the most important debates over proof, privacy and police regulation will appeal broadly to students, laypersons, practitioners, and experts.

Knowledge workers create the innovations and strategies that keep their firms competitive and the economy healthy. Yet, companies continue to manage this new breed of employee with techniques designed for the Industrial Age. As this critical sector of the workforce continues to increase in size and importance, that's a mistake that could cost companies their future. Thomas Davenport argues that knowledge workers are vastly different from other types of workers in their motivations, attitudes, and need for autonomy--and, so, they require different management techniques to improve their

performance and productivity. Based on extensive research involving over 100 companies and more than 600 knowledge workers, Thinking for a Living provides rich insights into how knowledge workers think, how they accomplish tasks, and what motivates them to excel. Davenport identifies four major categories of knowledge workers and presents a unique framework for matching specific types of workers with the management strategies that yield the greatest performance. Written by the field's premier thought leader, Thinking for a Living reveals how to maximize the brain power that fuels organizational success. Thomas Davenport holds the President's Chair in Information Technology and Management at Babson College. He is director of research for Babson Executive Education; an Accenture Fellow; and author, co-author, or editor of nine books, including Working Knowledge: How Organizations Manage What They Know (HBS Press, 1997).

The Attention Economy

Weapons of Math Destruction

Big Data at Work

Digital Humanitarians

A Blueprint for Design, Development, and Adoption

How to Get Better Performances And Results from Knowledge Workers

The New Science of Winning

Data Science for Business

Get up and running with the Pentaho Data Integration tool using this hands-on, easy-to-read guide About This Book Manipulate your data by exploring, transforming, validating, and integrating it using Pentaho Data Integration 8 CE A comprehensive guide exploring the features of Pentaho Data Integration 8 CE Connect to any database engine, explore the databases, and perform all kind of operations on relational databases Who This Book Is For This book is a must-have for software developers, business intelligence analysts, IT students, or anyone involved or interested in developing ETL solutions. If you plan on using Pentaho Data Integration for doing any data manipulation task, this book will help you as well. This book is also a good starting point for data warehouse designers, architects, or anyone who is responsible for data warehouse projects and needs to load data into them. What You Will Learn Explore the features and capabilities of Pentaho Data Integration 8 Community Edition Install and get started with PDI Learn the ins and outs of Spoon, the graphical designer tool Learn to get data from all kind of data sources, such as plain files, Excel spreadsheets, databases, and XML files Use Pentaho Data Integration to perform CRUD (create, read, update, and delete) operations on relationaldatabases Populate a data mart with Pentaho Data Integration Use Pentaho Data Integration to organize files and folders, run daily processes, deal with errors, and more In Detail Pentaho Data Integration(PDI) is an intuitive and graphical environment packed with drag-and-drop design and powerful Extract-Tranform-Load (ETL) capabilities. This book shows and explains the new interactive features of Spoon, the revamped look and feel, and the newest features of the tool including transformations and jobs Executors and the invaluable Metadata Injection capability. We begin with the installation of PDI software and then move on to cover all the key PDI concepts. Each of the chapter introduces new features, enabling you to gradually get practicing with the tool. First, you will learn to do all kind of data manipulation and work with simple plain files. Then, the book teaches you how you can work with relational databases inside PDI. Moreover, you will be given a primer on data warehouse concepts and you will learn how to load data in a data warehouse. During the course of this book, you will be familiarized with its intuitive, graphical and drag-and-drop design environment. By the end of this book, you will learn everything you need to know in order to meet your data manipulation requirements. Besides, your will be given best practices and advises for designing and deploying your projects. Style and approach Step by step guide filled with practical, real world scenarios and examples.

Overviews enterprise system (ES) opportunities and challenges and suggests the ESs are not the right choice for every company. Provides a set of guidelines to help managers evaluate the benefits and risks of ES implementation, stressing that an organization must make simultaneous changes in its information systems, business processes, and business strategy. Such changes are described in detail with extensive examples from real organizations, demonstrating that ESs should be viewed as business rather than technology projects. Davenport is director of a consulting institute and professor of information management at Boston University. Annotation copyrighted by Book News, Inc., Portland, OR

Longlisted for the National Book Award New York Times Bestseller A former Wall Street quant sounds an alarm on the mathematical models that pervade modern life -- and threaten to rip apart our social fabric We live in the age of the algorithm. Increasingly, the decisions that affect our lives--where we go to school, whether we get a car loan, how much we pay for health insurance--are being made not by humans, but by mathematical models. In theory, this should lead to greater fairness: Everyone is judged according to the same rules, and bias is eliminated. But as Cathy O'Neil reveals in this urgent and necessary book, the opposite is true. The models being used today are opaque, unregulated, and uncontestable, even when they're wrong. Most troubling, they reinforce discrimination: If a poor student can't get a loan because a lending model deems him too risky (by virtue of his zip code), he's then cut off from the kind of education that could pull him out of poverty, and a vicious spiral ensues. Models are propping up the lucky and punishing the downtrodden, creating a "toxic cocktail for democracy." Welcome to the dark side of Big Data. Tracing the arc of a person's life, O'Neil exposes the black box models that shape our future, both as individuals and as a society. These "weapons of math destruction" score teachers and students, sort r sum s, grant (or deny) loans, evaluate workers, target voters, set parole, and monitor our health. O'Neil calls on modelers to take more responsibility for their algorithms and on policy makers to regulate their use. But in the end, it's up to us to become more savvy about the models that govern our lives. This important book empowers us to ask the tough questions, uncover the truth, and demand change. -- Longlist for National Book Award (Non-Fiction) -- Goodreads, semi-finalist for the 2016 Goodreads Choice Awards (Science and Technology) -- Kirkus, Best Books of 2016 -- New York Times, 100 Notable Books of 2016 (Non-Fiction) -- The Guardian, Best Books of 2016 -- WBUR's "On Point," Best Books of 2016: Staff Picks -- Boston Globe, Best Books of 2016, Non-Fiction

Big Data at WorkDispelling the Myths, Uncovering the OpportunitiesHarvard Business Review Press
An end-to-end guide to exploring, transforming, and integrating your data across multiple sources
Big Data
Using Data Science to Transform Information into Insight
Infonomics
The Data Science Revolution and Organizational Psychology
Enterprise Analytics
Ask, Measure, Learn
Leveraging Big Data Analytics to Improve Military Recruiting

Implementing Analytics demystifies the concept, technology and application of analytics and breaks its implementation down to repeatable and manageable steps, making it possible for widespread adoption across all functions of an organization. Implementing Analytics simplifies and helps democratize a very specialized discipline to foster business efficiency and innovation without investing in multi-million dollar technology and manpower. A technology agnostic methodology that breaks down complex tasks like model design and tuning and emphasizes business decisions rather than the technology behind analytics. Simplifies the understanding of analytics from a technical and functional perspective and shows a wide array of problems that can be tackled using existing technology Provides a detailed step by step approach to identify opportunities, extract requirements, design variables and build and test models. It further explains the business decision strategies to use analytics models and provides an overview for governance and tuning Helps formalize analytics projects from staffing, technology and implementation perspectives Emphasizes machine learning and data mining over statistics and shows how the role of a Data Scientist can be broken down and still deliver the value by building a robust development process
Data Science gets thrown around in the press like it'smagic. Major retailers are predicting everything from when theircustomers are pregnant to when they want a new pair of ChuckTaylors. It's a brave new world where seemingly meaningless datacan be transformed into valuable insight to drive smart businessdecisions. But how does one exactly do data science? Do you have to hireone of these priests of the dark arts, the "data scientist," toextract this gold from your data? Nope. Data science is little more than using straight-forward steps toprocess raw data into actionable insight. And in DataSmart, author and data scientist John Foreman will show you howthat's done within the familiar environment of aspreadsheet. Why a spreadsheet? It's comfortable! You get to look at the dataevery step of the way, building confidence as you learn the tricksof the trade. Plus, spreadsheets are a vendor-neutral place tolearn data science without the hype. But don't let the Excel sheets fool you. This is a book forthose serious about learning the analytic techniques, the math andthe magic, behind big data. Each chapter will cover a different technique in aspreadsheet so you can follow along: Mathematical optimization, including non-linear programming andgenetic algorithms Clustering via k-means, spherical k-means, and graphmodularity Data mining in graphs, such as outlier detection Supervised AI through logistic regression, ensemble models, andbag-of-words models Forecasting, seasonal adjustments, and prediction intervalsthrough monte carlo simulation Moving from spreadsheets into the R programming language You get your hands dirty as you work alongside John through eachtechnique. But never fear, the topics are readily applicable andthe author laces humor throughout. You'll even learnwhat a dead squirrel has to do with optimization modeling, whichyou no doubt are dying to know. The business environment of the 1990s demands significant changes in the way we do business. Simply formulating strategy is no longer sufficient; we must also design the processes to implement it effectively. The key to change is process innovation, a revolutionary new approach that fuses information technology and human resource management to improve business performance. The cornerstone to process innovation's dramatic results is information technology--a largely untapped resource, but a crucial "enabler" of process innovation. In turn, only a challenge like process innovation affords maximum use of information technology's potential. Davenport provides numerous examples of firms that have succeeded or failed in combining business change and technology initiatives. He also highlights the roles of new organizational structures and human resource programs in developing process innovation. Process innovation is quickly becoming the byword for industries ready to pull their companies out of modest growth

patterns and compete effectively in the world marketplace.
This revelatory exploration of big data, which refers to our newfound ability to crunch vast amounts of information, analyze it
instantly and draw profound and surprising conclusions from it, discusses how it will change our lives and what we can do to
protect ourselves from its hazards. 75,000 first printing.
"I Have Nothing to Hide"