

Beautiful Data The Stories Behind Elegant Data Solutions

This proceedings set contains 85 selected full papers presented at the 3rd International Conference on Modelling, Computation and Optimization in Information Systems and Management Sciences - MCO 2015, held on May 11–13, 2015 at Lorraine University, France. The present part II of the 2 volume set includes articles devoted to Data analysis and Data mining, Heuristic / Meta heuristic methods for operational research applications, Optimization applied to surveillance and threat detection, Maintenance and Scheduling, Post Crises banking and eco-finance modelling, Transportation, as well as Technologies and methods for multi-stakeholder decision analysis in public settings.

Counsels programmers and administrators for big and small organizations on how to work with large-scale application datasets using Apache Hadoop, discussing its capacity for storing and processing large amounts of data while demonstrating best practices for building reliable and scalable distributed systems.

The Invisible Web, also known as the Deep Web, is a huge repository of underutilized resources that can be richly rewarding to searchers who make the effort to find them. Since Jane Devine and Francine Egger-Sider explored the educational potentials of this realm in *Going Beyond Google: The Invisible Web in Learning and Teaching*, the information world has grown even more complex, with more participants, more content, more formats, and more means of access. Demonstrating why teaching the Invisible Web should be a requirement for information literacy education in the 21st century, here the authors expand on the teaching foundation provided in the first book and persuasively argue that the Invisible Web is still relevant not only to student research but also to everyday life. Intended for anyone who conducts research on the web, including students, teachers, information professionals, and general users, their book Defines the characteristics of the Invisible Web, both technologically and cognitively Provides a literature review of students' information-seeking habits, concentrating on recent research Surveys the theory and practice of teaching the Invisible Web Shows ways to transform students into better researchers Highlights teaching resources such as graphics, videos, and tutorials Offers an assortment of tools, both public and proprietary, for trawling the Invisible Web Looks at the future of the Invisible Web, with thoughts on how changes in search technology will affect users, particularly students learning to conduct research

In *Data Sketches*, Nadieh Bremer and Shirley Wu document the deeply creative process behind 24 unique data visualization projects, and they combine this with powerful technical insights which reveal the mindset behind coding creatively. Exploring 12 different themes – from the Olympics to Presidents & Royals and from Movies to Myths & Legends – each pair of visualizations explores different technologies and forms, blurring the boundary between visualization as an exploratory tool and an artform in its own right. This beautiful book provides an intimate, behind-the-scenes account of all 24 projects and shares the authors' personal notes and drafts every step of the way. The book features: Detailed information on data gathering, sketching, and coding data visualizations for the web, with screenshots of works-in-progress and reproductions from the authors' notebooks Never-before-published technical write-ups, with beginner-friendly explanations of core data visualization concepts Practical lessons based on the data and design challenges overcome during each project Full-color pages, showcasing all 24 final data visualizations This book is perfect for anyone interested or working in data visualization and information design, and especially those who want to take their work to the next level and are inspired by unique and compelling data-driven storytelling. "In this comprehensive book, Professor Randy Deutsch has unlocked and laid bare the twenty-

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first century codice nascosto of architecture. It is data. Big data. Data as driver. . . This book offers us the chance to become informed and knowledgeable pursuers of data and the opportunities it offers to making architecture a wonderful, useful, and smart art form.” —From the Foreword by James Timberlake, FAIA Written for architects, engineers, contractors, owners, and educators, and based on today’s technology and practices, *Data-Driven Design and Construction: 25 Strategies for Capturing, Applying and Analyzing Building Data* addresses how innovative individuals and firms are using data to remain competitive while advancing their practices. seeks to address and rectify a gap in our learning, by explaining to architects, engineers, contractors and owners—and students of these fields—how to acquire and use data to make more informed decisions. documents how data-driven design is the new frontier of the convergence between BIM and architectural computational analyses and associated tools. is a book of adaptable strategies you and your organization can apply today to make the most of the data you have at your fingertips. *Data-Driven Design and Construction* was written to help design practitioners and their project teams make better use of BIM, and leverage data throughout the building lifecycle.

Image Studies offers an engaging introduction to visual and image studies. In order to better understand images and visual culture the book seeks to bridge between theory and practice; asking the reader to think critically about images and image practices, but also simultaneously to make images and engage with image-makers and image-making processes. Looking across a range of domains and disciplines, we find the image is never a single, static thing. Rather, the image can be a concept, an object, a picture, or medium – and all these things combined. At the heart of this book is the idea of an ‘ecology of images’, through which we can examine the full ‘life’ of an image – to understand how an image resonates within a complex set of contexts, processes and uses. Part 1 covers theoretical perspectives on the image, supplemented with practical entries on making, researching and writing with images. Part 2 explores specific image practices and cultures, with chapters on drawing and painting; photography; visual culture; scientific imaging; and informational images. A wide range of illustrations complement the text throughout and each chapter includes creative tasks, keywords (linked to an online resource), summaries and suggested further reading. In addition, each of the main chapters include selected readings by notable authors across a range of subject areas, including: Art History, Business, Cognitive Science, Communication Studies, Infographics, Neuroscience, Photography, Physics, Science Studies, Social Semiotics, Statistics, and Visual Culture.

This book provides a novel inquiry-based approach to understanding and interpreting the practical, medical, and societal aspects of personal genomic information. It opens with an introduction to genomics and the issues surrounding the use of genomic data, and then discusses the potential applications of this data using real examples and data sets.

Provides an introduction of the data industry to the field of economics This book bridges the gap between economics and data science to help data scientists understand the economics of big data, and enable economists to analyze the data industry. It begins by explaining data resources and introduces the data asset. This book defines a data industry chain, enumerates data enterprises’ business models versus operating models, and proposes a mode of industrial development for the data industry. The author describes five types of enterprise agglomerations, and multiple industrial cluster effects. A discussion on the establishment and development of data industry related laws and regulations is provided. In addition, this book discusses several scenarios on how to convert data driving forces into productivity that can then serve society. This book is designed to serve as a reference and training guide for data scientists, data-oriented managers and executives, entrepreneurs, scholars, and government employees. Defines and develops the concept of a “Data Industry,” and explains the economics of data to data scientists and statisticians Includes numerous case studies and

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examples from a variety of industries and disciplines Serves as a useful guide for practitioners and entrepreneurs in the business of data technology The Data Industry: The Business and Economics of Information and Big Data is a resource for practitioners in the data science industry, government, and students in economics, business, and statistics. CHUNLEI TANG, Ph.D., is a research fellow at Harvard University. She is the co-founder of Fudan's Institute for Data Industry and proposed the concept of the "data industry". She received a Ph.D. in Computer and Software Theory in 2012 and a Master of Software Engineering in 2006 from Fudan University, Shanghai, China.

This book describes in detail sampling techniques that can be used for unsupervised and supervised cases, with a focus on sampling techniques for machine learning algorithms. It covers theory and models of sampling methods for managing scalability and the "curse of dimensionality", their implementations, evaluations, and applications. A large part of the book is dedicated to database comprising standard feature vectors, and a special section is reserved to the handling of more complex objects and dynamic scenarios. The book is ideal for anyone teaching or learning pattern recognition and interesting teaching or learning pattern recognition and is interested in the big data challenge. It provides an accessible introduction to the field and discusses the state of the art concerning sampling techniques for supervised and unsupervised task. Provides a comprehensive description of sampling techniques for unsupervised and supervised tasks; Describe implementation and evaluation of algorithms that simultaneously manage scalable problems and curse of dimensionality; Addresses the role of sampling in dynamic scenarios, sampling when dealing with complex objects, and new challenges arising from big data. "This book represents a timely collection of state-of-the art research of sampling techniques, suitable for anyone who wants to become more familiar with these helpful techniques for tackling the big data challenge." M. Emre Celebi, Ph.D., Professor and Chair, Department of Computer Science, University of Central Arkansas "In science the difficulty is not to have ideas, but it is to make them work" From Carlo Rovelli

Are you a budding data scientist or aspire to be one someday? Have you ever wondered about all the data that is constantly in motion around the world? Does it surprise you when Netflix gives you suggestions for your next movie and it is very close to your taste in movies? Would you like to know more about data and how it is used regularly to influence every action you take? Do you want to know how businesses with a turnover in millions make critical decisions to make or break their business? Do you wonder how humans can process huge data for their decision-making? All this can be achieved through data in the form of visual representations. If you are curious to know the answers to all these questions, then this is the right book for you. This book will introduce how data is converted into visuals for better interpretation using the programming language known as Python. If you are well versed with Python, you will easily transition into leveraging the tools available to you in Python to create appealing data visuals from a raw set of data. You will also learn to create your own machine learning

models in Python to create data visualizations that will ease decision-making for you or your organization. If you are looking to launch yourself in the world of data science and looking to use Python as the most used tool in your toolkit, this book will serve as the perfect launchpad. This book is designed to help individuals with basic Python programming knowledge to learn something new concerning the use of Python data visualization libraries in the data science domain. The tools in this book will help you get a first impression of data science and how Python can be used extensively to create beautiful visuals to turn raw data into stories. The book will take you through: The need for data visualization today The concepts and techniques of data visualization The various tools available to achieve data visualization Data visualization libraries in Python The Pareto Chart Regression and Classification using Python This book has been designed for you to understand data visualization using Python. There are step by step guides and images with code snippets throughout the book to help you get your hands dirty by creating your own data visuals. So, here's hoping that this book helps you find your appetite to become a data scientist with a mystery in presenting data through effective visualizations someday. Click the Buy Now button to get started!

This book constitutes extended selected papers from the 16th Conference on Advanced Information Technologies for Management, AITM 2018, and the 13th Conference on Information Systems Management, ISM 2018, held as part of the Federated Conference on Computer Science and Information Systems, FedCSIS, which took place in Poznan, Poland, in September 2018. The total of 9 full and 3 short papers presented in this volume were carefully reviewed and selected from a total of 43 submissions. The papers selected to be included in this book contribute to the understanding of relevant trends of current research on information technology for management in business and public organizations. They were organized in topical sections named: information technology and systems for knowledge management, and information technology and systems for business transformation.

This book constitutes the thoroughly refereed post-conference proceedings of the International Conference on Industrial IoT Technologies and Applications, IoT 2016, held in GuangZhou, China, in March 2016. The volume contains 26 papers carefully reviewed and selected from 55 submissions focusing on topics such as big data, cloud computing, Internet of Things (IoT).

The two-volume set LNCS 7289 and 7290 constitutes the refereed proceedings of the 11th International IFIP TC 6 Networking Conference held in Prague, Czech Republic, in May 2012. The 64 revised full papers presented were carefully reviewed and selected from a total of 225 submissions. The papers feature innovative research in the areas of network architecture, applications and services, next generation Internet, wireless and sensor networks, and network science. The first volume includes 32 papers and is organized in topical sections on content-centric networking, social networks, reliability and resilience,

virtualization and cloud services, IP routing, network measurement, network mapping, and LISP and multi-domain routing.

This new resource presents the principles and applications in the emerging discipline of Activity-Based Intelligence (ABI). This book will define, clarify, and demystify the tradecraft of ABI by providing concise definitions, clear examples, and thoughtful discussion. Concepts, methods, technologies, and applications of ABI have been developed by and for the intelligence community and in this book you will gain an understanding of ABI principles and be able to apply them to activity based intelligence analysis. The book is intended for intelligence professionals, researchers, intelligence studies, policy makers, government staffers, and industry representatives. This book will help practicing professionals understand ABI and how it can be applied to real-world problems.

All companies which reach a critical size are faced with outsourcing decisions that can increase the value of their products and services primarily through lower costs, greater reliability and improved efficiency. Successful outsourcing decisions have an important knowledge dimension, where the outsourcing professionals need to be supported by historical and contextual knowledge regarding their own products performance but also the performance of suppliers. Outsourcing in Manufacturing: the Knowledge Dimension explains in detail how a manager can acquire, create, transfer and use knowledge that optimizes their outsourcing decisions and improves the chances of marketplace success. Outsourcing in Manufacturing: the Knowledge Dimension gives examples of the key decisions that needs to be taken by managers regarding effective outsourcing. Decisions are divided around the structural and infrastructural aspects of outsourcing and the key knowledge that needs to be managed to support good decisions. The book contains illustrations and examples of key processes throughout and concludes with a section dedicated to case studies. These case studies represent a variety of manufacturing system types and sizes focused on supply chain integration, and which deploy various manufacturing paradigms including craft, mass, lean, adaptive, and sustainable manufacturing. Outsourcing in Manufacturing: the Knowledge Dimension covers many theoretical and practical examples of critical outsourcing decisions, their knowledge aspects and how knowledge challenges can be dealt with in a systematic way. It provides a key resource for students, lecturers and industry managers looking to solidify their understanding and application of outsourcing decision making strategies. .

Traditional Chinese edition of Behind the Beautiful Forevers: Life, Death, and Hope in a Mumbai Undercity. The book is named the best of 2012 by New York Times. It is the 2012 National Book Awards winner in the NONFICTION category. In Traditional Chinese. Annotation copyright Tsai Fong Books, Inc. Distributed by Tsai Fong Books, Inc.

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Learn how to develop your own applications to monitor or control instrumentation

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hardware. Whether you need to acquire data from a device or automate its functions, this practical book shows you how to use Python's rapid development capabilities to build interfaces that include everything from software to wiring. You get step-by-step instructions, clear examples, and hands-on tips for interfacing a PC to a variety of devices. Use the book's hardware survey to identify the interface type for your particular device, and then follow detailed examples to develop an interface with Python and C. Organized by interface type, data processing activities, and user interface implementations, this book is for anyone who works with instrumentation, robotics, data acquisition, or process control. Understand how to define the scope of an application and determine the algorithms necessary, and why it's important. Learn how to use industry-standard interfaces such as RS-232, RS-485, and GPIB. Create low-level extension modules in C to interface Python with a variety of hardware and test instruments. Explore the console, curses, TkInter, and wxPython for graphical and text-based user interfaces. Use open source software tools and libraries to reduce costs and avoid implementing functionality from scratch.

This book captures the state of the art in cloud technologies, infrastructures, and service delivery and deployment models. The work provides guidance and case studies on the development of cloud-based services and infrastructures from an international selection of expert researchers and practitioners. Features: presents a focus on security and access control mechanisms for cloud environments, analyses standards and brokerage services, and investigates the role of certification for cloud adoption; evaluates cloud ERP, suggests a framework for implementing "big data" science, and proposes an approach for cloud interoperability; reviews existing elasticity management solutions, discusses the relationship between cloud management and governance, and describes the development of a cloud service capability assessment model; examines cloud applications in higher education, including the use of knowledge-as-a-service in the provision of education, and cloud-based e-learning for students with disabilities. In this insightful book, you'll learn from the best data practitioners in the field just how wide-ranging -- and beautiful -- working with data can be. Join 39 contributors as they explain how they developed simple and elegant solutions on projects ranging from the Mars lander to a Radiohead video. With Beautiful Data, you will: Explore the opportunities and challenges involved in working with the vast number of datasets made available by the Web. Learn how to visualize trends in urban crime, using maps and data mashups. Discover the challenges of designing a data processing system that works within the constraints of space travel. Learn how crowdsourcing and transparency have combined to advance the state of drug research. Understand how new data can automatically trigger alerts when it matches or overlaps pre-existing data. Learn about the massive infrastructure required to create, capture, and process DNA data. That's only a small sample of what you'll find in Beautiful Data. For anyone who handles data, this is a truly fascinating book. Contributors include: Nathan Yau, Jonathan Follett and Matt Holm, J.M. Hughes, Raghuram Ramakrishnan, Brian Cooper, and Utkarsh Srivastava, Jeff Hammerbacher, Jason Dykes and Jo Wood, Jeff Jonas and Lisa Sokol, Jud Valeski, Alon Halevy and Jayant Madhavan, Aaron Koblin with Valdean Klump, Michal Migurski, Jeff Heer, Coco Krumme, Peter Norvig, Matt Wood and Ben Blackburne, Jean-Claude Bradley, Rajarshi Guha, Andrew Lang, Pierre Lindenbaum, Cameron Neylon, Antony Williams, and Egon Willighagen, Lukas Biewald and Brendan O'Connor, Hadley

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Wickham, Deborah Swayne, and David Poole Andrew Gelman, Jonathan P. Kastellec, and Yair Ghitza Toby Segaran

This book constitutes the proceedings of the 15th International Symposium on Research in Attacks, Intrusions and Defenses, former Recent Advances in Intrusion Detection, RAID 2012, held in Amsterdam, The Netherlands in September 2012. The 18 full and 12 poster papers presented were carefully reviewed and selected from 84 submissions. The papers address all current topics in virtualization, attacks and defenses, host and network security, fraud detection and underground economy, web security, intrusion detection.

The recent digital and mobile revolutions are a minor blip compared to the next wave of technological change, as everything from robot swarms to skin-top embeddable computers and bio printable organs start appearing in coming years. In this collection of inspiring essays, designers, engineers, and researchers discuss their approaches to experience design for groundbreaking technologies. Design not only provides the framework for how technology works and how it's used, but also places it in a broader context that includes the total ecosystem with which it interacts and the possibility of unintended consequences. If you're a UX designer or engineer open to complexity and dissonant ideas, this book is a revelation. Contributors include: Stephen Anderson, PoetPainter, LLC Lisa Caldwell, Brazen UX Martin Charlier, Independent Design Consultant Jeff Faneuff, Carbonite Andy Goodman, Fjord US Camille Goudeseune, Beckman Institute, University of Illinois at Urbana-Champaign Bill Hartman, Essential Design Steven Keating, MIT Media Lab, Mediated Matter Group Brook Kennedy, Virginia Tech Dirk Knemeyer, Involution Studios Barry Kudrowitz, University of Minnesota Gershom Kutliroff, Omek Studio at Intel Michal Levin, Google Matt Nish-Lapidus, Normative Erin Rae Hoffer, Autodesk Marco Righetto, SumAll Juhan Sonin, Involution Studios Scott Stropkay, Essential Design Scott Sullivan, Adaptive Path Hunter Whitney, Hunter Whitney and Associates, Inc. Yaron Yanai, Omek Studio at Intel

Written especially for undergraduate students, Representation synthesises and updates our understandings of representation - and the tools for its analysis - for use in the new mediascape. Jenny Kidd uses an engaging range of current examples and a lively style to explore a number of key questions reflecting existing and contemporary debates about representation. These key questions include: Who 'owns' and manages representations? Whose realities are foregrounded, and whose are consigned to invisibility? To what extent are increased opportunities for self-representation altering the landscape? And what happens to representation within the noisy, playful and often subversive communications of the Internet? Kidd considers the political, social and cultural importance of representation across a broad spectrum of cultural and creative industries. This examination of the relationship between media/cultural representations and the construction of reality, identity and society makes it an ideal text for students that need to get to grips with this core thematic of media and cultural studies.

Complete guidance for mastering the tools and techniques of the digital revolution With the digital revolution opening up tremendous opportunities in many fields, there is a growing need for skilled professionals who can develop data-intensive systems and extract information and knowledge from them. This book frames for the first time a new systematic approach for tackling the challenges of data-intensive computing,

providing decision makers and technical experts alike with practical tools for dealing with our exploding data collections. Emphasizing data-intensive thinking and interdisciplinary collaboration, *The Data Bonanza: Improving Knowledge Discovery in Science, Engineering, and Business* examines the essential components of knowledge discovery, surveys many of the current research efforts worldwide, and points to new areas for innovation. Complete with a wealth of examples and DISPEL-based methods demonstrating how to gain more from data in real-world systems, the book: Outlines the concepts and rationale for implementing data-intensive computing in organizations Covers from the ground up problem-solving strategies for data analysis in a data-rich world Introduces techniques for data-intensive engineering using the Data-Intensive Systems Process Engineering Language DISPEL Features in-depth case studies in customer relations, environmental hazards, seismology, and more Showcases successful applications in areas ranging from astronomy and the humanities to transport engineering Includes sample program snippets throughout the text as well as additional materials on a companion website *The Data Bonanza* is a must-have guide for information strategists, data analysts, and engineers in business, research, and government, and for anyone wishing to be on the cutting edge of data mining, machine learning, databases, distributed systems, or large-scale computing.

This book has been written for experienced managers and students in postgraduate programs, such as MBA or specialized Masters programs. In a systematic yet concise manner, it addresses all major issues companies face when conducting business across national and cultural boundaries, including assessing and selecting the most promising overseas markets, evaluating market entry alternatives, examining the forces that drive adaptation versus standardization of the marketing mix. It looks at the various global marketing challenges from a strategic perspective and also addresses topics not usually found in international marketing texts, such as aligning marketing strategies with global organizational structures, managing the relationship between national subsidiaries, regional headquarters and global headquarters, as well as corporate social responsibility challenges, and pertinent future trends that are likely to affect global business.

The Wuffle is the tale of an imaginary creature that is until now unknown to the world, even the creatures of the forest in which he lives. This first tale of the Wuffle tells of his discovery by a little bunny that will become his friend. The creatures of the forest learn of his existence and the Wuffle is forced to deal with their awareness and overcome his fear of going out into the world. This dual language English/Simplified Chinese version of *The Wuffle* is intended to be a tool for students studying English as a second language.

This book introduces readers to ecological informatics as an emerging discipline that takes into account the data-intensive nature of ecology, the valuable information to be found in ecological data, and the need to communicate results and inform decisions, including those related to research, conservation and resource management. At its core, ecological informatics combines developments in information technology and ecological theory with applications

that facilitate ecological research and the dissemination of results to scientists and the public. Its conceptual framework links ecological entities (genomes, organisms, populations, communities, ecosystems, landscapes) with data management, analysis and synthesis, and communicates new findings to inform decisions by following the course of a loop. In comparison to the 2nd edition published in 2006, the 3rd edition of Ecological Informatics has been completely restructured on the basis of the generic conceptual framework provided in Figure 1. It reflects the significant advances in data management, analysis and synthesis that have been made over the past 10 years, including new remote and in situ sensing techniques, the emergence of ecological and environmental observatories, novel evolutionary computations for knowledge discovery and forecasting, and new approaches to communicating results and informing decisions.

"Science in the Archives" reveals affinities and continuities among the sciences of the archives, across many disciplines and centuries, in order to present a better picture of essential archival practices and, thereby, the meaning of science. For in both the natural and human sciences, archives of the most diverse forms make cumulative, collective knowledge possible. Yet in contrast to laboratories, observatories, or the field, archives have yet to be studied across the board as central sites of science. The volume covers episodes in the history of astronomy, geology, genetics, classical philology, climatology, history, medicine, and ancient natural philosophy, as well as fundamental practices such as collecting, retrieval strategies, and data mining. The time frame spans doxology in Greco-Roman antiquity to NSA surveillance techniques and the quantified-self movement. Each chapter explores the practices, politics, economics, and open-ended potential of the sciences of the archives, making this the first book devoted to the role of archives in the natural and human sciences. The quality of a data warehouse (DWH) is the elusive aspect of it, not because it is hard to achieve [once we agree what it is], but because it is difficult to describe. We propose the notion that quality is not an attribute or a feature that a product has to possess, but rather a relationship between that product and each and every stakeholder. More specifically, the relationship between the software quality and the organization that produces the products is explored. Quality of data that populates the DWH is the main concern of the book, therefore we propose a definition for data quality as: "fitness to serve each and every purpose". Methods are proposed throughout the book to help readers achieve data warehouse quality.

This book constitutes the refereed proceedings of the Third International Conference on Data Mining and Big Data, DMBD 2018, held in Shanghai, China, in June 2018. The 74 papers presented in this volume were carefully reviewed and selected from 126 submissions. They are organized in topical sections named: database, data preprocessing, matrix factorization, data analysis, visualization, visibility analysis, clustering, prediction, classification, pattern

discovery, text mining and knowledge management, recommendation system in social media, deep learning, big data, Industry 4.0, practical applications

Digital technologies have transformed archives in every area of their form and function, and as technologies mature so does their capacity to change our understanding and experience of material and performative cultural production. There has been an exponential explosion in the production and consumption of video online and yet there is a scarcity of knowledge and cases about video and the digital archive. This book seeks to address that through the lens of the project Circus Oz Living Archive. This project provides the case study foundation for the articulation of the issues, challenges and possibilities that the design and development of digital archives afford. Drawn from eight different disciplines and professions, the authors explore what it means to embrace the possibilities of digital technologies to transform contemporary cultural institutions and their archives into new methods of performance, representation and history. This book provides a major forum for the technical advancement of knowledge management and its applications across diversified domains. Pursuing an interdisciplinary approach, it focuses on methods used to identify and acquire valid, potentially useful knowledge sources. Managing the gathered knowledge and applying it to multiple domains including health care, social networks, data mining, recommender systems, image processing, pattern recognition and predictions using machine learning techniques is the major strength of this book. Effective knowledge management has become a key to the success of business organizations, and can offer a substantial competitive edge. So as to be accessible to all scholars, this book combines the core ideas of knowledge management and its applications in numerous domains, illustrated in case studies. The techniques and concepts proposed here can be extended in future to accommodate changing business organizations' needs as well as practitioners' innovative ideas.

The Data Whisperer's practical guide to explaining and understanding the strategic value of data management. The need for data management is everywhere across your company. The value of every digitally transformative customer-facing initiative, every data science and analytics-based project, every as-a-service offering, every foray into e-commerce, and every enterprise software implementation is inextricably linked to the successful output of data management efforts. Although it is a simple function of garbage in garbage out, that slogan rarely drives any sustainable executive action. We need to tell a better data story. Data Storytelling is probably the hottest non-technical trend in the technology-related space. But it does not directly support data management because it is focused on analytics or telling stories with data. So, it is time to expand the realm of Data Storytelling to recognize the role of data management by telling stories about data. Learn how to secure stakeholder involvement and executive commitment to fund and support data management as a systematic, consistent, fundamental part of your business. This book is for: Data management leaders trying to explain your value to C-Level and business stakeholders. As a practitioner, you may already know how to fix your data, but your business leaders ignore your advice. When you explain data management to the business, they may nod "yes" on the outside, but they nod off on the inside. Business stakeholders trying to comprehend why data management is important. Many

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business people may be frightened, threatened, intimidated, or at the very least confused and bewildered by the techno-babble often associated with data-related conversations. If you want to know more about why data management needs to be a strategic imperative in your organization, you'll learn it here in simple terms. Data scientists looking to understand better how you connect to "The Business." A recurring struggle I hear from data scientists is the need to get "closer to business." If you are a data scientist, then you need to understand your company's data story. The more you can align your work to the core value your company delivers, the more successful you will be. This book will help you discover the essence of why data brings value to your business. Anyone interested in understanding the business value of data management. I offer simple explanations about why data management is essential for your organization. Without going deep into technical concepts and processes, I focus on the business-related outputs. I share ways you can think about what foundational data does. Its importance is vital for the future of your enterprise. Since this is a book about telling data stories, I share it through stories divided into five sections: My data story. Why I know what I know and why you should listen to me. Everyone's data story. A collection of classic, foundational data situations relevant to all enterprises. Framing your data story. A set of simple frameworks about data value. Selling your data story. Tips on creating a compelling narrative. Building your data story. Why you must align with the strategic intentions of your enterprise. Language resources and computational models are becoming increasingly important for the study of language variation. A main challenge of this interdisciplinary field is that linguistics researchers may not be familiar with these helpful computational tools and many NLP researchers are often not familiar with language variation phenomena. This essential reference introduces researchers to the necessary computational models for processing similar languages, varieties, and dialects. In this book, leading experts tackle the inherent challenges of the field by balancing a thorough discussion of the theoretical background with a meaningful overview of state-of-the-art language technology. The book can be used in a graduate course, or as a supplementary text for courses on language variation, dialectology, and sociolinguistics or on computational linguistics and NLP. Part 1 covers the linguistic fundamentals of the field such as the question of status and language variation. Part 2 discusses data collection and pre-processing methods. Finally, Part 3 presents NLP applications such as speech processing, machine translation, and language-specific issues in Arabic and Chinese.

Leverage the power of Scala and master the art of building, improving, and validating scalable machine learning and AI applications using Scala's most advanced and finest features About This Book Build functional, type-safe routines to interact with relational and NoSQL databases with the help of the tutorials and examples provided Leverage your expertise in Scala programming to create and customize your own scalable machine learning algorithms Experiment with different techniques; evaluate their benefits and limitations using real-world financial applications Get to know the best practices to incorporate new Big Data machine learning in your data-driven enterprise and gain future scalability and maintainability Who This Book Is For This Learning Path is for engineers and scientists who are familiar with Scala and want to learn how to create, validate, and apply machine learning algorithms. It will also benefit software developers with a background in Scala programming who want to apply machine learning. What You Will Learn Create Scala web applications that couple with JavaScript libraries such as D3 to create compelling interactive visualizations Deploy scalable parallel applications using Apache Spark, loading data from HDFS or Hive Solve big data problems with Scala parallel collections, Akka actors, and Apache Spark clusters Apply key learning strategies to perform technical analysis of financial markets Understand the principles of supervised and unsupervised learning in machine learning Work with unstructured data and serialize it using Kryo, Protobuf, Avro, and AvroParquet Construct reliable and robust data pipelines and manage data in a data-driven enterprise Implement scalable model monitoring

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and alerts with Scala In Detail This Learning Path aims to put the entire world of machine learning with Scala in front of you. Scala for Data Science, the first module in this course, is a tutorial guide that provides tutorials on some of the most common Scala libraries for data science, allowing you to quickly get up to speed building data science and data engineering solutions. The second course, Scala for Machine Learning guides you through the process of building AI applications with diagrams, formal mathematical notation, source code snippets, and useful tips. A review of the Akka framework and Apache Spark clusters concludes the tutorial. The next module, Mastering Scala Machine Learning, is the final step in this course. It will take your knowledge to next level and help you use the knowledge to build advanced applications such as social media mining, intelligent news portals, and more. After a quick refresher on functional programming concepts using REPL, you will see some practical examples of setting up the development environment and tinkering with data. We will then explore working with Spark and MLlib using k-means and decision trees. By the end of this course, you will be a master at Scala machine learning and have enough expertise to be able to build complex machine learning projects using Scala. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Scala for Data Science, Pascal Bugnion Scala for Machine Learning, Patrick Nicolas Mastering Scala Machine Learning, Alex Kozlov Style and approach A tutorial with complete examples, this course will give you the tools to start building useful data engineering and data science solutions straightaway. This course provides practical examples from the field on how to correctly tackle data analysis problems, particularly for modern Big Data datasets.

A field manual to the technologies that are transforming our lives Everywhere we turn, a startling new device promises to transfigure our lives. But at what cost? In this urgent and revelatory excavation of our Information Age, leading technology thinker Adam Greenfield forces us to reconsider our relationship with the networked objects, services and spaces that define us. It is time to re-evaluate the Silicon Valley consensus determining the future. We already depend on the smartphone to navigate every aspect of our existence. We're told that innovations—from augmented-reality interfaces and virtual assistants to autonomous delivery drones and self-driving cars—will make life easier, more convenient and more productive. 3D printing promises unprecedented control over the form and distribution of matter, while the blockchain stands to revolutionize everything from the recording and exchange of value to the way we organize the mundane realities of the day to day. And, all the while, fiendishly complex algorithms are operating quietly in the background, reshaping the economy, transforming the fundamental terms of our politics and even redefining what it means to be human. Having successfully colonized everyday life, these radical technologies are now conditioning the choices available to us in the years to come. How do they work? What challenges do they present to us, as individuals and societies? Who benefits from their adoption? In answering these questions, Greenfield's timely guide clarifies the scale and nature of the crisis we now confront —and offers ways to reclaim our stake in the future.

This open access book constitutes the research workshops, doctoral symposium and panel summaries presented at the 20th International Conference on Agile Software Development, XP 2019, held in Montreal, QC, Canada, in May 2019. XP is the premier agile software development conference combining research and practice. It is a hybrid forum where agile researchers, academics, practitioners, thought leaders, coaches, and trainers get together to present and discuss their most recent innovations, research results, experiences, concerns, challenges, and trends. Following this history, for both researchers and seasoned practitioners XP 2019 provided an informal environment to network, share, and discover trends in Agile for the next 20 years. Research papers and talks submissions were invited for the three XP 2019 research workshops, namely, agile transformation, autonomous teams, and large scale agile.

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This book includes 15 related papers. In addition, a summary for each of the four panels at XP 2019 is included. The panels were on security and privacy; the impact of the agile manifesto on culture, education, and software practices; business agility – agile’s next frontier; and Agile – the next 20 years.

Games are playing a crucial role in many successful businesses—not just in PR and marketing, but as a model for designing business systems and workflows. In this book, Michael Hugos provides compelling case studies that demonstrate how game mechanics enable companies to respond quickly to challenges in today’s real-time economy. It’s not about giving workers a smiley face for producing more widgets. You’ll discover how game mechanics—particularly popular multiplayer video games—provide field-tested best practices for engaging workers in creative and complex activities. With games, your company can shift from an outmoded top-down hierarchy to an agile network structure that promotes coordination over control. Discover why industrial age business structures from the 20th century no longer work Design real-time business collaboration systems, using massively multiplayer online game concepts Make your in-house systems more agile with technologies such as social media, mobile devices, and cloud computing Understand game dynamics: goals, rules, real-time feedback, and voluntary participation Apply virtual worlds and 3-D animation to business intelligence and data analytics applications

The book is devoted to the analysis of big data in order to extract from these data hidden patterns necessary for making decisions about the rational behavior of complex systems with the different nature that generate this data. To solve these problems, a group of new methods and tools is used, based on the self-organization of computational processes, the use of crisp and fuzzy cluster analysis methods, hybrid neural-fuzzy networks, and others. The book solves various practical problems. In particular, for the tasks of 3D image recognition and automatic speech recognition large-scale neural networks with applications for Deep Learning systems were used. Application of hybrid neuro-fuzzy networks for analyzing stock markets was presented. The analysis of big historical, economic and physical data revealed the hidden Fibonacci pattern about the course of systemic world conflicts and their connection with the Kondratieff big economic cycles and the Schwabe–Wolf solar activity cycles. The book is useful for system analysts and practitioners working with complex systems in various spheres of human activity.

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