

Big Data Kpmg

The public sector plays an important role for both regulation and in the delivery of services directly or indirectly. In this context, it is important to consider transformation, change, and innovation, which are the elements on which the main determinants that influence public management and the administration of economic, social, and political systems are based. This book describes the nature of the problem, its multidimensionality, and the need for original approaches, through the contribution of scholars belonging to different disciplines. This book contains nine chapters in a single section (Public Management and Administration), which, through the different approaches to the subject by the authors, help to explain the issues of the public sector.

The rapidly evolving nature of emerging technologies, and the transformative and disruptive tendencies offered by these are reshaping professional activities, operations and functions as well as value creation.

This book introduces machine learning in finance and illustrates how we can use computational tools in numerical finance in real-world context. These computational techniques are particularly useful in financial risk management, corporate bankruptcy prediction, stock price prediction, and portfolio management. The book also offers practical and managerial implications of financial and managerial decision support systems and how these systems capture vast amount of financial data. Business risk and uncertainty are two of the toughest challenges in the financial industry. This book will be a useful guide to the use of machine learning in forecasting, modeling, trading, risk management, economics, credit risk, and portfolio management.

This book demonstrates the inevitability of a continuously growing role of data in our society and it stresses that this role does not need to be threatening: to the contrary, collection and analysis of data can help us prevent traffic jams, suppress epidemics, or produce tailor made medicine. The authors sketch the contours of a new information society, in which everything will be measured from our heartbeat during our morning run to the music we listen to and our walking patterns through department stores and they discuss the resistances within the society that have to be overcome. Sander Klous holds a PhD in High Energy Physics and contributed to the discovery of the Higgs boson at CERN (Nobel prize 2013). Klous works at KPMG and is professor in Big Data at the University of Amsterdam. Nart Wielaard is a self-employed consultant and business writer. He develops compelling and clear stories on complex topics for a broad range of clients. Wielaard specializes in the domain where technology, society and business meet.

Onder invloed van technologische ontwikkelingen verandert de wereld sneller dan ooit tevoren. Headhunter Ralf Knegtmans laat in 'Agile Talent' overtuigend zien dat dit niet alleen grote invloed heeft op bedrijven, maar ook op hun medewerkers. Je kunt mensen niet langer alleen selecteren op basis van wat ze kunnen of weten, maar dient ook mee te wegen wie ze zijn en wat hen drijft. De selectiecriteria van het talent van morgen zijn wezenlijk anders dan die van vandaag. Ralf Knegtmans schetst negen cruciale stappen bij de selectie van het talent van de toekomst. Door te screenen op basis van zijn 'receptuur' kan iedereen, zelfs zonder hulp van externe consultants, de beste talenten met een grote houdbaarheidsfactor identificeren en selecteren. 'Agile Talent' is bedoeld voor iedereen die te maken heeft met de selectie van directieleden, managers of medewerkers. Het beantwoordt ook de volgende vragen: - Hoe weet ik of dit 'agile' talent past binnen de context van mijn bedrijf? - Zijn er hulpmiddelen die mijn selectie kunnen objectiveren en zorgen voor een grotere voorspelbaarheid van toekomstig succes? - Zijn er casestudy's van bedrijven die voorlopen op dit terrein waar ik iets van kan leren? - Hoe kan ik 'agile' talent binnen mijn bedrijf herkennen en behouden?

This volume provides challenges and Opportunities with updated, in-depth material on the application of Big data to complex systems in order to find solutions for the challenges and problems facing big data sets applications. Much data today is not natively in structured format; for example, tweets and blogs are weakly structured pieces of text, while images and video are structured for storage and display, but not for semantic content and search. Therefore transforming such content into a structured format for later analysis is a major challenge. Data analysis, organization, retrieval, and modeling are other foundational challenges treated in this book. The material of this book will be useful for researchers and practitioners in the field of big data as well as advanced undergraduate and graduate students. Each of the 17 chapters in the book opens with a chapter abstract and key terms list. The chapters are organized along the lines of problem description, related works, and analysis of the results and comparisons are provided whenever feasible.

This book, Big Data for a Sustainable Smart City, is an overview of the role of big data in the sustainability of a smart city. The book looks at the future trends and challenges in the use of big data, with discussions on big data and its implementation contextually elaborated, touching on several subdomains of smart city, such as smart infrastructure, smart healthcare, and smart grid. As distributed ledger technology and blockchain have increasingly become part and parcel of big data, with potential role as alternative currency and authenticity instrument, the book also included discussions on distributed ledger technology. Highlights on social technology fusion as mooted by the concept of Society 5.0 is discussed as a continuation of technocentric IR 4.0 growth. The book concludes with hope and concern that society will be facing in tandem with its adoption.

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.

This book highlights state-of-the-art research on big data and the Internet of Things (IoT), along with related areas to ensure efficient and Internet-compatible IoT systems. It not only discusses big data security and privacy challenges, but also energy-efficient approaches to improving virtual machine placement in cloud computing environments. Big data and the Internet of Things (IoT) are ultimately two sides of the same coin, yet extracting, analyzing and managing IoT data poses a serious challenge. Accordingly, proper analytics infrastructures/platforms should be used to analyze IoT data. Information technology (IT) allows people to upload, retrieve, store and collect information, which ultimately forms big data. The use of big data analytics has grown tremendously in just the past few years. At the same time, the IoT has entered the public consciousness, sparking people's imaginations as to what a fully connected world can offer. Further, the book discusses the analysis of real-time big data to derive actionable intelligence in enterprise applications in several domains, such as in industry and agriculture. It explores possible automated solutions in daily life, including structures for smart cities and automated home systems based on IoT technology, as well as health care systems that manage large amounts of data (big data) to improve clinical decisions. The book addresses the security and privacy of the IoT and big data technologies, while also revealing the impact of IoT technologies on several scenarios in smart cities design. Intended as a comprehensive introduction, it offers in-depth analysis and provides scientists, engineers and professionals the latest techniques, frameworks and strategies used in IoT and big data technologies.

This book is a wonderful collection of chapters that posits how managers need to cope in the Big Data era. It highlights many of the emerging developments in technologies, applications, and trends related to management's needs in this Big Data era. —Dr. Jay Liebowitz, Harrisburg University of Science and Technology This book presents some meaningful work on Big Data analytics and its applications. Each chapter generates helpful guidance to the readers on Big Data analytics and its applications, challenges, and prospects that is necessary for organizational strategic direction. —Dr. Alex Koochang, Middle Georgia State University Big Data is a concept that has caught the attention of practitioners, academicians, and researchers. Big Data offers organizations the possibility of gaining a competitive advantage by managing, collecting, and analyzing massive amounts of data. As the promises and challenges posed by Big Data have increased over the past decade, significant issues have developed regarding how data can be used for improving management. Big Data can be understood as large amounts of data generated by the Internet and a variety of connected smart devices and sensors. This book discusses the main challenges posed by Big Data in a manner relevant to both practitioners and scholars. It examines how companies can leverage Big Data analytics to act and optimize the business. This book brings together the theory and practice of management in the era of Big Data. It offers a look at the current state of Big Data, including a comprehensive overview of both research and practical applications. By bringing together conceptual thinking and empirical research on the nature, meaning, and development of Big Data in management, this book unifies research on Big Data in management to stimulate new directions for academic investigation as well as practice.

Higher education today faces a host of challenges, from quality to cost. But too little attention gets paid to a startling fact: four out of ten students -- that's more than ten percent of the entire population -- who start college drop out. The situation is particularly dire for black and Latino students, those from poor families, and those who are first in their families to attend college. In *The College Dropout Scandal*, David Kirp outlines the scale of the problem and shows that it's fixable -- we already have the tools to boost graduation rates and shrink the achievement gap. Many college administrators know what has to be done, but many of them are not doing the job -- the dropout rate hasn't decreased for decades. It's not elite schools like Harvard or Williams who are setting the example, but places like City University of New York and Long Beach State, which are doing the hard work to assure that more students have a better education and a diploma. As in his *New York Times* columns, Kirp relies on vivid, on-the-ground reporting, conversations with campus leaders, faculty and students, as well as cogent overviews of cutting-edge research to identify the institutional reforms--like using big data to quickly identify at-risk students and get them the support they need -- and the behavioral strategies -- from nudges to mindset changes -- that have been proven to work. Through engaging stories that shine a light on an underappreciated problem in colleges today, David Kirp's hopeful book will prompt colleges to make student success a top priority and push more students across the finish line, keeping their hopes of achieving the American Dream alive.

This book provides a concise overview of the current context and types of public sector audit and the varied structures within which public sector audit is practised across the world. It summarises the objectives of public sector audit as well as explores the role of the International Organisation of Supreme Audit Institutions in providing guidance to these. Drawing on public and private sector audit as well as the views of academics and practitioners on public sector audit, it provides a unique research-based guide to the current issues and future challenges in the field.

Have you ever imagined what a truly great health system could look like? In *Search of the Perfect Health System* provides the answers. Over the past six years, Mark Britnell has worked in 60 countries -- covering eight-tenths of the world's GDP -- with hundreds of government, public and private healthcare organisations. He has circumnavigated the planet 70 times over and offers unique perspectives on countries and the tectonic global forces at play. Mark infuses his writing with his own humanity and personal struggle with cancer and has all the heart and passion of a healthcare professional combined with the head of a person who leads a successful global health practice. As we all have busy lives, each essay and chapter can be read in the time it takes to drink a cup of coffee. It's quite possible to read this book in a day and gain a truly global health perspective.

Hone your analytic talents and become part of the next big thing *Getting a Big Data Job For Dummies* is the ultimate guide to landing a position in one of the fastest-growing fields in the modern economy. Learn exactly what "big data" means, why it's so important across all industries, and how you can obtain one of the most sought-after skill sets of the

decade. This book walks you through the process of identifying your ideal big data job, shaping the perfect resume, and nailing the interview, all in one easy-to-read guide. Companies from all industries, including finance, technology, medicine, and defense, are harnessing massive amounts of data to reap a competitive advantage. The demand for big data professionals is growing every year, and experts forecast an estimated 1.9 million additional U.S. jobs in big data by 2015. Whether your niche is developing the technology, handling the data, or analyzing the results, turning your attention to a career in big data can lead to a more secure, more lucrative career path. *Getting a Big Data Job For Dummies* provides an overview of the big data career arc, and then shows you how to get your foot in the door with topics like: The education you need to succeed The range of big data career path options An overview of major big data employers A plan to develop your job-landing strategy Your analytic inclinations may be your ticket to long-lasting success. In a highly competitive job market, developing your data skills can create a situation where you pick your employer rather than the other way around. If you're ready to get in on the ground floor of the next big thing, *Getting a Big Data Job For Dummies* will teach you everything you need to know to get started today.

Information technology has permeated all walks of life in the past two decades. Accounting is no exception. Be it financial accounting, management accounting, or audit, information technology and systems have simplified daily tasks and routine work, simplified reporting, and changed how accounting is done. *The Routledge Companion to Accounting Information Systems* provides a prestige reference work which offers students and researchers an introduction to current and emerging scholarship in the discipline. Contributions from an international cast of authors provides a balanced view of both the technical underpinnings and organisational consequences of accounting information systems. With a focus on the business consequences of technology, this unique reference book will be a vital resource for students and researchers involved in accounting and information management.

As the world has adapted to the age of digital technology, present day business leaders are required to change with the times as well. Addressing and formatting their business practices to not only encompass digital technologies, but expand their capabilities, the leaders of today must be flexible and willing to familiarize themselves with all types of global business practices. *Global Business Leadership Development for the Fourth Industrial Revolution* is a collection of advanced research on the methods and tactics utilized to succeed as a leader in the digital age. While highlighting topics including data privacy, corporate governance, and risk management, this book is ideally designed for business professionals, administrators, managers, executives, researchers, academicians, and business students who want to improve their understanding of the strategic role of digital technologies in the global economy, in networks and organizations, in teams and work groups, in information systems, and at the level of individuals as actors in digitally networked environments

This book aims to provide some insights into recently developed bio-inspired algorithms within recent emerging trends of fog computing, sentiment analysis, and data streaming as well as to provide a more comprehensive approach to the big data management from pre-processing to analytics to visualization phases. The subject area of this book is within the realm of computer science, notably algorithms (meta-heuristic and, more particularly, bio-inspired algorithms). Although application domains of these new algorithms may be mentioned, the scope of this book is not on the application of algorithms to specific or general domains but to provide an update on recent research trends for bio-inspired algorithms within a specific application domain or emerging area. These areas include data streaming, fog computing, and phases of big data management. One of the reasons for writing this book is that the bio-inspired approach does not receive much attention but shows considerable promise and diversity in terms of approach of many issues in big data and streaming. Some novel approaches of this book are the use of these algorithms to all phases of data management (not just a particular phase such as data mining or business intelligence as many books focus on); effective demonstration of the effectiveness of a selected algorithm within a chapter against comparative algorithms using the experimental method. Another novel approach is a brief overview and evaluation of traditional algorithms, both sequential and parallel, for use in data mining, in order to provide an overview of existing algorithms in use. This overview complements a further chapter on bio-inspired algorithms for data mining to enable readers to make a more suitable choice of algorithm for data mining within a particular context. In all chapters, references for further reading are provided, and in selected chapters, the author also include ideas for future research.

This book defines and develops the concept of data capital. Using an interdisciplinary perspective, this book focuses on the key features of the data economy, systematically presenting the economic aspects of data science. The book (1) introduces an alternative interpretation on economists' observation of which capital has changed radically since the twentieth century; (2) elaborates on the composition of data capital and it as a factor of production; (3) describes morphological changes in data capital that influence its accumulation and circulation; (4) explains the rise of data capital as an underappreciated cause of phenomena from data sovereign, economic inequality, to stagnating productivity; (5) discusses hopes and challenges for industrial circles, the government and academia when an intangible wealth brought by data (and information or knowledge as well); (6) proposes the development of criteria for measuring regulating data capital in the twenty-first century for regulatory purposes by looking at the prospects for data capital and possible impact on future society. Providing the first a thorough introduction to the theory of data as capital, this book will be useful for those studying economics, data science, and business, as well as those in the financial industry who own, control, or wish to work with data resources.

This book constitutes the refereed proceedings of the 17th Australasian Conference on Data Mining, AusDM 2019, held in Adelaide, SA, Australia, in December 2019. The 20 revised full papers presented were carefully reviewed and selected from 56 submissions. The papers are organized in sections on research track, application track, and industry showcase. This book examines issues related to the alignment of business strategies and analytics. Vast amounts of data are being

generated, collected, stored, processed, analyzed, distributed and used at an ever-increasing rate by organizations. Simultaneously, managers must rapidly and thoroughly understand the factors driving their business. Business Analytics is an interactive process of analyzing and exploring enterprise data to find valuable insights that can be exploited for competitive advantage. However, to gain this advantage, organizations need to create a sophisticated analytical climate within which strategic decisions are made. As a result, there is a growing awareness that alignment among business strategies, business structures, and analytics are critical to effectively develop and deploy techniques to enhance an organization's decision-making capability. In the past, the relevance and usefulness of academic research in the area of alignment is often questioned by practitioners, but this book seeks to bridge this gap. *Aligning Business Strategies and Analytics: Bridging Between Theory and Practice* is comprised of twelve chapters, divided into three sections. The book begins by introducing business analytics and the current gap between academic training and the needs within the business community. Chapters 2 - 5 examines how the use of cognitive computing improves financial advice, how technology is accelerating the growth of the financial advising industry, explores the application of advanced analytics to various facets of the industry and provides the context for analytics in practice. Chapters 6 - 9 offers real-world examples of how project management professionals tackle big-data challenges, explores the application of agile methodologies, discusses the operational benefits that can be gained by implementing real-time, and a case study on human capital analytics. Chapters 10 - 11 reviews the opportunities and potential shortfall and highlights how new media marketing and analytics fostered new insights. Finally the book concludes with a look at how data and analytics are playing a revolutionary role in strategy development in the chemical industry.

Analyzing data sets has continued to be an invaluable application for numerous industries. By combining different algorithms, technologies, and systems used to extract information from data and solve complex problems, various sectors have reached new heights and have changed our world for the better. *The Handbook of Research on Engineering, Business, and Healthcare Applications of Data Science and Analytics* is a collection of innovative research on the methods and applications of data analytics. While highlighting topics including artificial intelligence, data security, and information systems, this book is ideally designed for researchers, data analysts, data scientists, healthcare administrators, executives, managers, engineers, IT consultants, academicians, and students interested in the potential of data application technologies.

This book delves into the many innovative changes that the financial industry has undergone in recent years. The authors investigate these developments in a holistic manner and from a wide range of perspectives: both public and private, business and consumer, regulators and supervisors. Initially, they set the framework of their analysis by discussing innovation cycles in financial services. Thereafter, they tackle the issue of financial innovations and their consequences for financial stability. They then review the new approaches to financial consumers' protection, which emerged in the aftermath of the global financial crisis. The authors underline the fact that this new approach is heavily influenced by the recent innovative drive in the financial industry. Next, they switch their attention to the public sector, examining the innovative processes in monetary policy and central banks, structural innovations in the supervisory models and systems, and they assess some specific supervisory challenges regarding blockchain and the application of mathematics in the supervisory capacity. Additionally, the book examines a range of issues related to the private sector, such as recent developments regarding risk transferring mechanisms on the financial market, artificial intelligence and natural language processing for regulatory filings, the development of process management in insurance companies and other innovative products on the market. Finally, *Innovation in Financial Services* discusses how the digital transformation of the financial system impacts the interaction between the public and private sectors. The book is intended for graduate and postgraduate level students, researchers, public sector officers, as well as financial sector practitioners.

As technology continues to revolutionise today's economy, Big Data, Blockchain and Cryptocurrency are rapidly transforming themselves into mainstream functions within the financial services industry. This book examines each concept individually, analysing the opportunities and challenges they bring and exploring the potential for future development. The authors further evaluate the fusion of these three important products of the FinTech revolution, illustrating their combined influence on the digital economy. Providing a comprehensive analysis of three innovative technologies, this timely book will appeal to scholars researching innovation in the finance industry and financial services technology more specifically.

"Long before the term big data first appeared in 1997, organizations were already struggling to make sense of all of the information piling up in their databases and warehouses. But over the past five years, the focus on big data has started to shift: today the issue is no longer about owning the most data but rather about how to gain the most insight from that data and - in turn - how to convert those insights into real business advantage. To gain a more concrete understanding of the opportunities and challenges that data and analytics (D & A) presents, KPMG International commissioned FT Remark to survey 144 CFOs and CIOs from major corporations around the world (those with more than US 1 billion dollar in annual turnover). To gain a more concrete understanding of the opportunities and challenges that data and analytics (D & A) presents, KPMG International commissioned FT Remark to survey 144 CFOs and CIOs from major corporations around the world (those with more than US 1 billion dollar in annual turnover)."--Extracted from KPMG website.

Alles is meetbaar, van onze hartslag tijdens een rondje joggen en de muziek die we beluisteren tot de looppatronen in winkels. Door die data te gebruiken kunnen we indrukwekkende analyses maken om bijvoorbeeld filevorming te voorkomen, epidemieën voortijdig te onderdrukken en medicijnen op maat aan te bieden. Zo ontstaat een nieuwe samenleving waarin technologie en maatschappij met elkaar zijn verweven. Toch is er veel weerstand tegen de verdere opkomst van de informatiesamenleving. Mensen zijn bang dat hun privacy in het geding is en willen een slot op hun gegevens. Sander Klous en Nart Wielaard zetten Big Data opnieuw op de kaart. Ze laten zien dat het onvermijdelijk is dat data een steeds grotere rol gaan spelen in de maatschappij en dat dat geen bedreiging hoeft te vormen. Als we een goede basis leggen voor een verantwoorde toepassing van data-analyse, ligt er een toekomst vol kansen voor ons open.

Masterarbeit aus dem Jahr 2017 im Fachbereich BWL - Controlling, Note: 1,3, Katholische Universität Eichstätt-Ingolstadt (Lehrstuhl für Allgemeine Betriebswirtschaftslehre und Unternehmensrechnung, Univ. Prof. Dr. mult. Anton Burger), Sprache: Deutsch, Abstract: Durch den rasanten technologischen Fortschritt erhöhen sich momentan nicht nur die Einsatzmöglichkeiten von Big Data in Unternehmen, vor allem werden entsprechende IT-Systeme zur Speicherung und Analyse von Big Data zunehmend günstiger in der Anschaffung und der Nutzung. Aber auch die Wirtschaftlichkeit wird durch die zahlreichen Einsatzmöglichkeiten und den zusätzlichen Erkenntnisgewinn erhöht. Zu diesem Ergebnis kommt eine repräsentative Studie der Bitcom Research und KPMG, nach der in 2016 bereits 35 Prozent der befragten deutschen Unternehmen Big Data nutzen. In 2015 waren es lediglich 23 Prozent. Mehr als die Hälfte der befragten Unternehmen einer anderen Studie von KPMG planen den Einsatz von Big Data. Klassische Einsatzbereiche sind bisher die Produktion, Projektabwicklung, Vertrieb und das Marketing. Zunehmend gewinnt Big Data auch in den Controlling-Abteilungen an Bedeutung. Das bestätigte eine weitere empirische Studie des Instituts für Business Intelligence aus dem Jahr 2014, bei der 77 Prozent der befragten IT-Professionals das Potenzial von Big Data im Controlling und der Unternehmenssteuerung als hoch einstuften. Das klassische Rechnungswesen haben hingegen nur 37 Prozent mit einem hohen Potenzial eingestuft. Die Studien legen nahe, dass vor allem die Berufsgruppen, die in intensivem Kontakt mit Big Data Technologien sind, auch die Potenziale von Big Data kennen und mit den Anwendungsmöglichkeiten vertraut sind. Die Controlling-Abteilungen zählen die Informationsversorgung zu einer ihrer Hauptaufgaben, sind jedoch nicht zwingend mit den neusten Technologien vertraut, was eine Einschätzung der Potenziale von unterschiedlichen Big Data-Anwendungsmöglichkeiten erschweren kann. Ziel dieser Arbeit ist es daher die Nutzungspotenziale von Big Data in klassischen Controlling-Bereichen wie Planung, Forecasting, Simulation und Reporting herauszuarbeiten. Diese Potenzialanalyse der Anwendungsmöglichkeiten unterstützt Unternehmen und Controlling-Abteilungen bei der Bewertung der Einsatzmöglichkeiten von Big Data Technologien. Dabei ist auch der Einfluss von Big Data und entsprechender Technologien auf das zukünftige Berufsbild des Controllers im Sinne der Aufgaben und Kenntnisse zu untersuchen und gegenüber dem neuen Berufsbild des Data Scientists abzugrenzen.

These proceedings focus on selected aspects of the current and upcoming trends in transportation, logistics, supply chain management, and decision sciences. In detail the included scientific papers analyze the problem of Decision Making under Uncertainty, Stochastic Optimization, Transportation, Logistics and Intelligent Business. The variety of the papers delivers added value for both scholars and practitioners. This book is the documentation of the symposium "The Seventh International Forum on Decision Sciences", which took place in Windsor, Canada.

This report examines digitalisation's effects on science, technology and innovation and the associated consequences for policy. In varied and far-reaching ways, digital technologies are changing how scientists work, collaborate and publish.

Given the popularity of drones and the fact that they are easy and cheap to buy, it is generally expected that the ubiquity of drones will significantly increase within the next few years. This raises questions as to what is technologically feasible (now and in the future), what is acceptable from an ethical point of view and what is allowed from a legal point of view. Drone technology is to some extent already available and to some extent still in development. The aim and scope of this book is to map the opportunities and threats associated with the use of drones and to discuss the ethical and legal issues of the use of drones. This book provides an overview of current drone technologies and applications and of what to expect in the next few years. The question of how to regulate the use of drones in the future is addressed, by considering conditions and contents of future drone legislation and by analyzing issues surrounding privacy and safeguards that can be taken. As such, this book is valuable to scholars in several disciplines, such as law, ethics, sociology, politics and public administration, as well as to practitioners and others who may be confronted with the use of drones in their work, such as professionals working in the military, law enforcement, disaster management and infrastructure management. Individuals and businesses with a specific interest in drone use may also find in the nineteen contributions contained in this volume unexpected perspectives on this new field of research and innovation. Bart Custers is Associate Professor and Head of Research at eLaw, the Center for Law and Digital Technologies at Leiden University, The Netherlands. He has presented his work at international conferences in the United States, China, Japan, the Middle East and throughout Europe and has published over 80 scientific, professional and popularizing publications, including three books.

"The principal authors were Carrie Beth Peterson (Consultant in eHealth and Innovation, WHO Regional Office for Europe), Clayton Hamilton (Editor-in-chief and Unit Leader, eHealth and Innovation in the Division of Information, Evidence, Research and Innovation, WHO Regional Office for Europe) and Per Hasvold (WHO Collaborating Centre for eHealth and Telemedicine at the Norwegian Centre for Integrated Care and Telemedicine, Troms, Norway)."--Page viii.

This edited volume focuses on big data implications for computational social science and humanities from management to usage. The first part of the book covers geographic data, text corpus data, and social media data, and exemplifies their concrete applications in a wide range of fields including anthropology, economics, finance, geography, history, linguistics, political science, psychology, public health, and mass communications. The second part of the book provides a panoramic view of the development of big data in the fields of computational social sciences and humanities. The following questions are addressed: why is there a need for novel data governance for this new type of data?, why is big data important for social scientists?, and how will it revolutionize the way social scientists conduct research? With the advent of the information age and technologies such as Web 2.0, ubiquitous computing, wearable devices, and the Internet of Things, digital society has fundamentally changed what we now know as "data", the very use of this data, and what we now call "knowledge". Big data has become the standard in social sciences, and has made these sciences more computational. Big Data in Computational Social Science and Humanities will appeal to graduate students and researchers working in the many subfields of the social sciences and humanities.

This book constitutes the thoroughly refereed proceedings of six international workshops held in Tallinn, Estonia, in conjunction with the 30th International Conference on Advanced Information Systems Engineering, CAiSE 2018, in June 2018. These workshops were: – The 5th Workshop on Advances in Services Design based on the Notion of Capability (ASDENCA) – The 1st Workshop on Business Data Analytics: Techniques and Applications (BDA) – The 1st Workshop on Blockchains for Inter-Organizational Collaboration (BIOC) – The 6th Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE) – The 2nd Workshop on Enterprise Modeling – The 1st Workshop on Flexible Advanced Information Systems (FAiSE) Two more workshops decided to produce their own, independent proceedings. The 22 full papers presented here were carefully reviewed and selected from a total of 49 submissions.

This book explores how a range of innovative disruptive technologies is about to combine to transform the insurance industry, the products it produces, and the way the industry is managed. It argues that unless current insurance providers react to these waves of disruption they will be swept away by new innovators. The book describes what insurers need to do to survive. The main aim is to get insurers to reimagine their industry away from the sale of a one-off product, into the sale of a series of real-time, data-based risk services. While parts of these disruptions have been discussed, this book is the first to bring all the issues together and unites them using a theoretical framework. This book is essential reading for insurance industry participants as well as to academics interested in insurance and understanding the key issues the industry currently faces.

This book presents a range of qualitative and quantitative analyses in areas such as cybersecurity, sustainability, multivariate analysis, customer satisfaction, parametric programming, software reliability growth modeling, and

blockchain technology, to name but a few. It also highlights integrated methods and practices in the areas of machine learning and genetic algorithms. After discussing applications in supply chains and logistics, cloud computing, six sigma, production management, big data analysis, satellite imaging, game theory, biometric systems, quality, and system performance, the book examines the latest developments and breakthroughs in the field of science and technology, and provides novel problem-solving methods. The themes discussed in the book link contributions by researchers and practitioners from different branches of engineering and management, and hailing from around the globe. These contributions provide scholars with a platform to derive maximum utility in the area of analytics by subscribing to the idea of managing business through system sciences, operations, and management. Managers and decision-makers can learn a great deal from the respective chapters, which will help them devise their own business strategies and find real-world solutions to complex industrial problems.

This book covers the subject of digital manufacturing. It provides a practical guide for readers on using computer aided design (CAD), computer aided engineering (CAE) and computer aided manufacturing (CAM) and other computer assistive tools for the design of products, machines, processes and system integrations through the case studies of engineering projects. The book introduces a thorough theoretical foundation and discussion of the historical development, and enabling technologies of digital manufacturing. It also covers a broad range of computer aided tools for a variety of applications including: geometric modelling; assembly modelling; motion simulation; finite element analysis; manufacturing process simulation; machining programming; product data management; and, product lifecycle management. Practical Guide to Digital Manufacturing uses many real-world case studies to illustrate the discussed applications, making it easily readable for undergraduate and graduate students, as well as engineers with the needs of computer-aided design and manufacturing knowledge and skills.

With the far-reaching global impact of the COVID-19 pandemic, the demand and the necessity for digital enterprise transformation have accelerated exponentially. Management and strategies for the adoption and wider usage of newer digital technologies for the transformation of an enterprise through digital tools such as real-time video communications have shown that people no longer need to be required to be physically present in the same place; rather, they can be geographically dispersed. Technologies such as artificial intelligence, cloud computing, digital banking, and cloud data have taken over tasks that were initially done by human hands and have increased both the automation and efficiency of tasks and the accessibility of information and services. Inclusion of all these newer technologies has shown the fast pace at which the digital enterprise transformation is rapidly evolving and how new ecosystems are reshaping the digital enterprise model. Disruptive Technology and Digital Transformation for Business and Government presents interesting research on digital enterprise transformation at different stages and across different settings within government and industry, along with key issues and deeper insights on the core problems and developing solutions and recommendations for digital enterprise transformation. The chapters examine the three core leaders of transformation: the people such as managers, employees, and customers; the digital technology such as artificial intelligence and robotics; and the digital enterprise, including the products and services being transformed. They unravel the underlying process for management and strategies to fully incorporate new digital tools and technologies across all aspects of an enterprise undergoing transformation. This book is ideally intended for managers, executives, IT consultants, business professionals, government officials, researchers, students, practitioners, stakeholders, academicians, and anyone else looking to learn about new developments in digital enterprise transformation of business systems from a global perspective.

Reputation is becoming an imperative business function that influences strategic decisions including the direction of a business plan and how an organization should be communicating with its stakeholders and publics. It is crucial for an organization to measure public relations outputs and outcomes as well as measuring established and developing relationships. Reputation Management Techniques in Public Relations is a critical scholarly resource that examines public relations strategies, such as employing media plans, determining communication channels, setting objectives, choosing the right promotional programs and message strategies, budgeting and assessing the overall effectiveness of a company's public relations strategy. Featuring coverage on a broad range of topics, such as brand and customer communications, corporate social responsibility, and leadership, this book is geared towards practitioners, professionals, and scholars seeking current research on reputation management.

The ability to uncover, share, and utilize knowledge is one of the most vital components to the success of any organization. While new technologies and techniques of knowledge dissemination are promising, there is still a struggle to derive and circulate meaningful information from large data sets. Strategic Data-Based Wisdom in the Big Data Era combines the latest empirical research findings, best practices, and applicable theoretical frameworks surrounding data analytics and knowledge acquisition. Providing a multi-disciplinary perspective of the subject area, this book is an essential reference source for professionals and researchers working in the field of knowledge management who would like to improve their understanding of the strategic role of data-based wisdom in different types of work communities and environments.

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

level. The text is supported by informative illustrations and case studies, so that practitioners can use the book as a toolbox to improve understanding and exploit business opportunities related to Big Data and analytics. Industry 4.0 is based on the cyber-physical transformation of processes, systems and methods applied in the manufacturing sector, and on its autonomous and decentralized operation. Industry 4.0 reflects that the industrial world is at the beginning of the so-called Fourth Industrial Revolution, characterized by a massive interconnection of assets and the integration of human operators with the manufacturing environment. In this regard, data analytics and, specifically, the artificial intelligence is the vehicular technology towards the next generation of smart factories. Chapters in this book cover a diversity of current and new developments in the use of artificial intelligence on the industrial sector seen from the fourth industrial revolution point of view, namely, cyber-physical applications, artificial intelligence technologies and tools, Industrial Internet of Things and data analytics. This book contains high-quality chapters containing original research results and literature review of exceptional merit. Thus, it is in the aim of the book to contribute to the literature of the topic in this regard and let the readers know current and new trends in the use of artificial intelligence for the Industry 4.0.

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