Descriptive Predictive Prescriptive Transforming Asset

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NELSON BRYNN

Strategic Analytics IGI Global

Technological advances and the drive to digitalize business processes in aviation, tourism, and

hospitality have forced the industries to go along with the digital movement. The results are often mixed. This book brings together contributions from leading scholars in the field and explores the digital transformation in these industries in Southeast Asia. The book looks at the impact of digital transformation on the region and the issues and challenges brought about by this transformation. It also addresses trends in the industries from blockchain technology, AI, biometric and mobile technology applications to in-flight catering. It examines the impact of COVID-19 on the industries and how the pandemic has led to businesses adopting new business models. Through the case studies of digital adoptions in the region, readers will gain insights on how the countries have leveraged new technologies and the implementation processes to drive digital transformation. The book aims to help scholars and policy makers understand the digital advances in the industries to better formulate responses in research and policy making and deliver effective digital transformation.

Simulating Business Processes for Descriptive, Predictive, and Prescriptive Analytics Technics Publications

The Handbook of RAMS in Railway Systems: Theory and Practice addresses the complexity in today's railway systems, which use computers and electromechanical

components to increase efficiency while ensuring a high level of safety. RAM (Reliability, Availability, Maintainability) addresses the specifications and standards that manufacturers and operators have to meet. Modeling, implementation, and assessment of RAM and safety requires the integration of railway engineering systems; mathematical and statistical methods; standards compliance; and financial/economic factors. This Handbook brings together a group of experts to present RAM and safety in a modern, comprehensive manner. Intelligent Digital Oil and Gas Fields CRC Press In a global and digital society, businesses are constantly being challenged by innovative and disruptive management strategies. The dramatic changes that took place in all corners of the world during the COVID-19 pandemic confirmed that companies need to update their resources and anticipate trends. The current changes introduced by digitalization offer endless innovation scenarios and strategic opportunities to companies but also demand an accurate and structured analysis of drivers, motivations, and determinants for success in this transformation. The Handbook of Research on Smart Management for Digital Transformation analyzes the drivers of digital transformation in businesses and assesses digital transformation success factors in the short, medium, and long

run. This critical reference source is comprised of theoretical and empirical chapters as well as case studies on digital adoption by companies in different business sectors. Covering topics such as brand messaging, digital media platforms, and success determinants, this book is an essential resource for managers, researchers, educators of higher education, business students, digital strategists, business associations, communication and marketing agencies, entrepreneurs, and academicians.

The Data Driven Leader
CRC Press
This book outlines the benefits and limitations of simulation, what is involved in setting up a simulation capability in an organization, the steps involved in developing a simulation model and how to ensure that model results are implemented. In addition, detailed example applications are provided to show where the tool is useful and what it can offer the decision maker. In Simulating Business Processes for Descriptive, Predictive, and Prescriptive Analytics, Andrew Greasley provides an in-depth discussion of Business process simulation and how it can enable business analytics How business process simulation can provide speed, cost, dependability, quality, and flexibility metrics Industrial case studies including improving service delivery while ensuring an efficient use of staff in public sector organizations such as the police service, testing the

capacity of planned production facilities in manufacturing, and ensuring on-time delivery in logistics systems State-of-the-art developments in business process simulation regarding the generation of simulation analytics using process mining and modeling people's behavior Managers and decision makers will learn how simulation provides a faster, cheaper and less risky way of observing the future performance of a real-world system. The book will also benefit personnel already involved in simulation development by providing a business perspective on managing the process of simulation, ensuring simulation results are implemented, and that performance is improved. *Prescriptive Analytics for Business Leaders* Packt Publishing Ltd This book constitutes the proceedings of the 8th International Symposium on Business Modeling and Software Design, BMSD 2018, held in Vienna, Austria, in July 2018. The 14 full papers and 21 short papers selected for inclusion in this book deal with a large number of research topics: (i) Some topics concern Business Processes (BP), such as BP modeling / notations / visualizations, BP management, BP variability, BP contracting, BP interoperability, BP modeling within augmented reality, inter-enterprise collaborations, and so on; (ii) Other topics concern Software Design, such as software ecosystems, specification of context-aware software systems, service-oriented

solutions and micro-service architectures, product variability, software development monitoring, and so on; (iii) Still other topics are crosscutting with regard to business modeling and software design, such as data analytics as well as information security and privacy; (iv) Other topics concern hot technology / innovation areas, such as blockchain technology and internet-of-things. Underlying with regard to all those topics is the BMSD'18 theme: Enterprise Engineering and Software Engineering - Processes and Systems for the Future.

AI and Big Data's Potential for Disruptive Innovation Springer Quality 4.0 is for all industries, and this book is for anyone who wants to learn how Industry 4.0 and Quality 4.0 can help improve quality and performance in their team or company. This comprehensive guide is the culmination of 25 years of research and practice-exploring, implementing, and critically examining the quality and performance improvement aspects of what we now call Industry 4.0 technologies. Navigate the connected, intelligent, and automated ecosystems of infrastructure, people, objects, machines, and data. Sift through the noise around AI, AR, big data, blockchain, cybersecurity, and other rising technologies and emerging issues to find the signals for your organization. Discover the value proposition of Quality 4.0 and the leading role for Quality

professionals to drive successful digital transformation initiatives. The changes ahead are powerful, exciting, and overwhelming-and we can draw on the lessons from past work to mitigate the risks we face today. Connected, Intelligent, Automated provides you with the techniques, philosophies, and broad overall knowledge you need to understand Quality 4.0, and helps you leverage those things for the future success of your enterprise. Chapter 1: Quality 4.0 and the Fourth Industrial Revolution Chapter 2: Connected Ecosystems Chapter 3: Intelligent Agents and Machine Learning Chapter 4: Automation: From Manual Labor to Autonomy Chapter 5: Quality 4.0 Use Cases Across Industries Chapter 6: From Algorithms to Advanced Analytics Chapter 7: Delivering Value and Impact Through Data Science Chapter 8: Data Quality and Data Management Chapter 9: Software Applications & Data Platforms Chapter 10: Blockchain Chapter 11: Performance Excellence Chapter 12: Environment, Health, Safety, Quality (EHSQ) and Cybersecurity Chapter 13: Voice of the Customer (VoC) Chapter 14: Elements of a Quality 4.0 Strategy Chapter 15: Playbook for Transformation

Handbook of Industry 4.0 and SMART Systems John Wiley & Sons

Defines common ground at the interface of strategy and management science and unites the topics with an

original approach vital for strategy students, researchers and managers Strategic Analytics: Integrating Management Science and Strategy combines strategy content with strategy process through the lenses of management science, masterfully defining the common ground that unites both fields. Each chapter starts with the perspective of a certain strategy problem, such as competition, but continues with an explanation of the strategy process using management science tools such as simulation. Facilitating the process of strategic decision making through the lens of management science, the author integrates topics that are usually in conflict for MBAs: strategy and quantitative methods. Strategic Analytics features multiple international real-life case studies and examples, business issues for further research and theory review questions and exercises at the end of each chapter. Strategic Analytics starts by introducing readers to strategic management. It then goes on to cover: managerial capabilities for a complex world; politics, economy, society, technology, and environment; external environments known as exogenous factors (PESTE) and endogenous factors (industry); industry dynamics; industry evolution; competitive advantage; dynamic resource management; organisational design; performance

measurement system; the life cycle of organisations from start-ups; maturity for maintaining profitability and growth; and finally, regeneration. Developed from the author's own Strategy Analytics course at Warwick Business School, personal experience as consultant, and in consultation with other leading scholars Uses management science to facilitate the process of strategic decision making Chapters structured with chapter objectives, summaries, short case studies, tables, student exercises, references and management science models Accompanied by a supporting website Aimed at both academics and practitioners, Strategic Analytics is an ideal text for postgraduates and advanced undergraduate students of business and management.

Internet of Things in Business Transformation

CRC Press

Imagine if your process manufacturing plants were running so well that your production, safety, environmental, and profitability targets were being met so that your subject matter experts could focus on data-driven business improvements. Through proper use and analysis of your existing operations data, your company can become an industry leader and reward your stakeholders. Written in an engaging and easily understandable manner, this book demonstrates a step-by-step process of how an organization can effectively utilize technology and make the necessary culture

changes to achieve operational excellence. You will see how several industry-leading companies have used an effective real-time data infrastructure for mission-critical business use cases. The book also addresses challenges involved, such as effectively integrating operational (OT) data with business (IT) systems to enable a more proactive, predictive management model for a fleet of process plants. Some of the things you will take away: Learn how a real-time data infrastructure enables transformation of raw sensor data into contextualized information for operational insights and business process improvement. Understand how reusing the same operational data for multiple use cases significantly impacts fleet management, profitability, and asset stewardship. See how a simple digital unit template representing production flows can be repeatedly used to identify critical inefficiencies in plant operations. Discover best practices of deploying real-time situational awareness alerts and predictive analytics. Realize how to transform your organization into a data-driven culture for continuous sustainable improvement. Find out how leading companies integrate operations data with business intelligence and predictive analytics tools in a corporate on-premises or cloud-enabled environment. Learn how industry-leading companies have

imaginatively used a real-time data infrastructure to improve yields, reduce cycle times, and slash operating costs. This book is targeted for process industries production and operations leadership, senior engineers, IT management, CIOs, and service providers to those industries. Academics will benefit from latest data analysis strategies. This book guides readers to use the best, results-proven approaches to ensure operational excellence.

Digital Transformation for the Process Industries Emerald Group Publishing The latest edition features a new chapter on implementation and operation of an integrated smart grid with updates to multiple chapters throughout the text. New sections on Internet of things, and how they relate to smart grids and smart cities, have also been added to the book. It describes the impetus for change in the electric utility industry and discusses the business drivers, benefits, and market outlook of the smart grid initiative. The book identifies the technical framework of enabling technologies and smart solutions and describes the role of technology developments and coordinated standards in smart grid, including various initiatives and organizations helping to drive the smart grid effort. With chapters written by leading experts in the field, the text explains how to plan, integrate, implement, and operate a smart grid.

Big Data Analytics CRC

Press
This book has a collection of articles written by Big Data experts to describe some of the cutting-edge methods and applications from their respective areas of interest, and provides the reader with a detailed overview of the field of Big Data Analytics as it is practiced today. The chapters cover technical aspects of key areas that generate and use Big Data such as management and finance; medicine and healthcare; genome, cytome and microbiome; graphs and networks; Internet of Things; Big Data standards; bench-marking of systems; and others. In addition to different applications, key algorithmic approaches such as graph partitioning, clustering and finite mixture modelling of high-dimensional data are also covered. The varied collection of themes in this volume introduces the reader to the richness of the emerging field of Big Data Analytics.
Artificial Intelligence for Asset Management and Investment Routledge
This book constitutes the refereed proceedings of the 4th IFIP TC 12 International Conference on Artificial Intelligence, IFIP AI 2015, Held as Part of WCC 2015, in Daejeon, South Korea, in October 2015. The 13 full papers presented were carefully reviewed and selected from 36 submissions. The papers are organized in topical sections on artificial intelligence techniques in biomedicine, artificial intelligence for knowledge management,

computational intelligence and algorithms, and intelligent decision support systems. The Routledge Companion to Knowledge Management Elsevier Make AI technology the backbone of your organization to compete in the Fintech era The rise of artificial intelligence is nothing short of a technological revolution. AI is poised to completely transform asset management and investment banking, yet its current application within the financial sector is limited and fragmented. Existing AI implementations tend to solve very narrow business issues, rather than serving as a powerful tech framework for next-generation finance. Artificial Intelligence for Asset Management and Investment provides a strategic viewpoint on how AI can be comprehensively integrated within investment finance, leading to evolved performance in compliance, management, customer service, and beyond. No other book on the market takes such a wide-ranging approach to using AI in asset management. With this guide, you'll be able to build an asset management firm from the ground up—or revolutionize your existing firm—using artificial intelligence as the cornerstone and foundation. This is a must, because AI is quickly growing to be the single competitive factor for financial firms. With better AI comes better results. If you aren't

integrating AI in the strategic DNA of your firm, you're at risk of being left behind. See how artificial intelligence can form the cornerstone of an integrated, strategic asset management framework Learn how to build AI into your organization to remain competitive in the world of Fintech Go beyond siloed AI implementations to reap even greater benefits Understand and overcome the governance and leadership challenges inherent in AI strategy Until now, it has been prohibitively difficult to map the high-tech world of AI onto complex and ever-changing financial markets. Artificial Intelligence for Asset Management and Investment makes this difficulty a thing of the past, providing you with a professional and accessible framework for setting up and running artificial intelligence in your financial operations.

Artificial Intelligence in Theory and Practice IV

Walter de Gruyter GmbH & Co KG

This book discusses action-oriented, concise and easy-to-communicate goals and challenges related to quality, reliability, infocomm technology and business operations. It brings together groundbreaking research in the area of software reliability, e-maintenance and big data analytics, highlighting the importance of maintaining the current growth in information technology (IT) adoption in businesses, while at the same time proposing process innovations to ensure sustainable

development in the immediate future. In its thirty-seven chapters, it covers various areas of e-maintenance solutions, software architectures, patching problems in software reliability, preventive maintenance, industrial big data and reliability applications in electric power systems. The book reviews the ways in which countries currently attempt to resolve the conflicts and opportunities related to quality, reliability, IT and business operations, and proposes that internationally coordinated research plans are essential for effective and sustainable development, with research being most effective when it uses evidence-based decision-making frameworks resulting in clear management objectives, and is organized within adaptive management frameworks. Written by leading experts, the book is of interest to researchers, academicians, practitioners and policy makers alike who are working towards the common goal of making business operations more effective and sustainable.

The The Economics of Data, Analytics, and Digital Transformation

Springer

This book addresses the topic of integrated digitization of plants on an objective basis and in a holistic manner by sharing data, applying analytics tools and integrating workflows via pertinent examples from industry. It begins with an evaluation of current performance management practices

and an overview of the need for a "Connected Plant" via digitalization followed by sections on "Connected Assets: Improve Reliability and Utilization," "Connected Processes: Optimize Performance and Economic Margin " and "Connected People: Digitalizing the Workforce and Workflows and Developing Ownership and Digital Culture," then culminating in a final section entitled "Putting All Together Into an Intelligent Digital Twin Platform for Smart Operations and Demonstrated by Application cases."

Smart Grid and Enabling Technologies Springer Nature

Today, digitization is dramatically changing the business landscape, and many progressive organizations have started to treat data as a valuable business asset. While many enterprises are investing in improved data management, only a few have leveraged data to truly impact business performance. To address this problem, Data for Business Performance provides readers with practical guidance and proven techniques to derive value from data in today’s business environment. Specifically, the book has five key elements that make it unique: The book is holistic, as it looks at deriving value for all three key purposes of data: decision making, compliance, and customer service. The book is for practitioners, with practical guidance and proven techniques supported by real world

examples. The book is relevant for the current business and IT landscape. The book is novel, with the adoption of the Goal-Question-Metric (GQM) framework as the core mechanism to monetize data in the organization, based on business goals, key questions, and key performance indicators (KPIs). The book is technology-agnostic, as concepts are used for unlocking the value of data without any reference to proprietary technologies. This book is absolutely timely and relevant in today's data-driven world. Most of the books on data available in the market today focus on data quality, governance, and analytics. This book from Dr. Prashanth Southekal is brilliant as it puts the business stakeholder at the center by addressing the key value propositions of the business user. This book is holistic and I strongly believe it will help to bridge the gaps we have today. Mario Faria Managing Vice President, Gartner, US In today's era of digital transformation, data and information are more important than ever. But deep understanding of how to manage data and information properly is in short supply. That is what I love about this book by Dr. Southekal. He tangibly closes that gap for the reader. If you are using digital transformation to improve your business performance, this book and its discussion of data's role in improving business performance is for you. Michael Fulton President, Americas

Division, CC and C Solutions, US Packed with insights and leveraging a process oriented approach, this book covers a unique combination of the science, the art and the strategy of unlocking the potential of data for enterprises in a real-life context. The author has managed to provide a clear action plan for creating data analytics and its management a key function in a modern enterprise. Ashish Sonal (Vir Chakra) CEO, Orkash, India This book is one of the most practical sources for how companies can greatly improve their bottom line by improved data management and becoming a data-centric company. It combines leading data management theory with step-by-step implementation and real-life examples, and is a must-read for those wanting to derive more value from their corporate data. Lance Calleberg Application Architect, Husky Energy, Canada Certainly, an engaging read for both information management practitioners and business unit managers alike. The tools, models, and frameworks prescribed are valuable, relevant, and lucidly blend inputs from the real-world to address numerous data management glitches at organizations. Overall, a compelling read with several practical takeaways. Refreshing! Sriram Kannan Digital & Analytics Practice Leader, IBM, India Prashanth has given a very practical guide to implement data culture in an organization. The book Data for Business Performance

talks about building the organization of the future and the role of data. Prashanth rightly believes and demonstrates that data is not an asset of the IT team and is an organization-wide asset. He proposes the need for the chief data officer (CDO) as a role that should anchor data and report to the CEO, and manage the stakeholders' data needs. Harshajith Umapathy Senior Vice President, Hansa Cequity, India Dr. Southekal provides valuable insights on data and information management in mostly short and clearly written sections. Anyone interested in the data-driven company should read this book and learn about the hurdles on the road to be data-driven, and his valuable suggestions on how to overcome them. His wisdom may prevent some of the failures that helped him learn. Erik van der Voorden Domain Architect, Independent Consultant, Netherlands Data can tell us important stories when we process it by proven and structured approaches. Dr. Southekal's book presents such an approach based on the GQM method for transforming business data into an enterprise asset. This book is a valuable resource for organizations willing to become real data-driven organizations. Ahmet Dikici, PhD Project Manager, Tubitak Bilgem Software Technologies, Turkey

Disruptive Innovation and Digital Transformation

Springer

This book presents a step by step Asset Health

Management Optimization Approach Using Internet of Things (IoT). The authors provide a comprehensive study which includes the descriptive, diagnostic, predictive, and prescriptive analysis in detail. The presentation focuses on the challenges of the parameter selection, statistical data analysis, predictive algorithms, big data storage and selection, data pattern recognition, machine learning techniques, asset failure distribution estimation, reliability and availability enhancement, condition based maintenance policy, failure detection, data driven optimization algorithm, and a multi-objective optimization approach, all of which can significantly enhance the reliability and availability of the system.

How Data Can Manage Global Health Pandemics John Wiley & Sons

This textbook offers a unique combination of theory, practical applications and case studies on digital transformation strategies. Digital transformation is the process of changing conventional business models enabled by digital technologies. This involves strategically deploying digital technologies to create differential value of an organization. Digital transformation encompasses strategy changes, business model innovation, product and process innovation, and organizational innovation, all wrapped in a layer of newer technologies. This textbook helps define

transformation and digitalization and contrasts them with digitization and automation. The book also presents a comprehensive digital strategy framework and describes each of its elements through several examples and exhibits. It provides useful insights into industry-specific cases, suggests detailed templates for digital implementation, and describes the risks in execution of digitalization and potential mitigation strategies. Key Features: • Covers all the key aspects of digital transformation required to build a career in consulting and implementation of digital strategy in business • Cases and examples from multiple industrial sectors to aid understanding of real-life practices and implementation of digital transformation • Structured in a reader-friendly manner to engage students, instructors, and junior and mid-level executives • Assumes no prior understanding of strategy, product development or process innovation

Data Science & Business Analytics Taylor & Francis

Data Science & Business Analytics explores the application of big data and business analytics by academics, researchers, industrial experts, policy makers and practitioners, helping the reader to understand how big data can be efficiently utilized in better managerial applications.

Applications of Big Data and Business Analytics in Management John Wiley & Sons

Philipp Meisen introduces

a model, a query language, and a similarity measure enabling users to analyze time interval data. The introduced tools are combined to design and realize an information system. The presented system is capable of performing analytical tasks (avoiding any type of summarizability problems), providing insights, and visualizing results processing millions of intervals within milliseconds using an intuitive SQL-based query language. The heart of the solution is based on several bitmap-based indexes, which enable the system to handle huge amounts of time interval data.

Digital Transformation in Aviation, Tourism and Hospitality in Southeast Asia SAGE Publishing India

Applications of Big Data and Business Analytics in Management uses advanced analytic tools to explore the solutions to problems in society, environment and industry. The chapters within bring together researchers, engineers and practitioners, encompassing a wide and diverse set of topics in almost every field.