Big Data In Logistics Dhl Express Global

This book gathers the best contributions from the conference "Digital Transformation of the Economy: Challenges, Trends and New Opportunities", which took place in Samara, Russian Federation, on May 29–31, 2018. Organized by Samara State University of Economics (Samara), Russia, the conference was devoted to issues of the digital economy.Presenting international research on the impact of digitalization on economic development, it includes topics such as the transformation of the institutional environment under the influence of informatization, the comparative analysis of the digitalization development in different countries, and modeling the dependence of the rate of change in the economy on the level of the digitalization penetration into various spheres of human activity. It also covers business-process transformation in the context of digitalization and changes in the structure of employment and personnel training for the digital economy. Lastly, it addresses the issue of ensuring information security and dealing with information risks for both individual enterprises and national economies as a whole. The book appeals to both students and researchers whose interests include the development of the digital economy, as well as to managers and professionals who integrate digital solutions into real-world business practice.

This book discusses supply chain issues and models with examples from actual case studies. Recent advances in sustainability, supply chains and technologies have brought promising potential for the management of sustainable global and local supply chains. While most of the current literature seem to consider developments in the field of sustainable supply chains and in the field of Industry 4.0 as two distinct entities, this book attempts to explore the synergy in bringing these two distinct fields together. The book features chapters on management of sustainability and industry 4.0 on supply chains as a whole, with several case studies on issues related to the application of sustainable supply chains in specific application sectors. They employ mathematical modeling and statistical analyses, as well as descriptive qualitative studies. They cover a range of application areas including multiple sectors (restaurant, manufacturing, logistics, furniture, food and insurance), domains (supply chains, logistics, marketing, and reverse logistics) and multiple country contexts (UK and India). The potential links between sustainability and the recent technological innovations from Industry 4.0 have been explored in detail. The book offers a valuable tool for managerial decision-making on the current practice and future potential on the use of Industry 4.0 tools for sustainable supply chains to facilitate competitive advantage with case studies in various industry sectors. In addition, some intriguing mathematical models will appeal to students and researchers interested in modeling the logistics process and the application of evolutionary game theory for integrating the social and economic aspects of sustainable supply chains. Some of these supply chain issues have been addressed in a previous book by the Editors.

Retail is going through difficult times and is suffering the consequences of both the economic crisis and the digitization of society. Fundamentally, there is a bigger problem: stores cannot keep up with the changing behavior of customers who are connected 24/7, customers for whom there is no distinction between online and offline. The End of Online Shopping: The Future of New Retail in an Always Connected World describes how the smart, the sharing, the circular, and the platform economy are shaping a new era of always connected retail. Retailers urgently need to innovate if they want to stay relevant in a world dominated by marketplaces and sharing platforms. The book contains inspiring examples from different industries -- which include the usual suspects such as Amazon, Alibaba, and Google, but also local startups -- and covers all aspects of the customer journey, from orientation and selection to delivery. The End of Online Shopping provides an excellent overview of shopping trends and developments worldwide, and offers readers indispensable insights into the future of retail.

This book constitutes the refereed proceedings of the 18th IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2017, held in Vicenza, Italy, in September 2017. The 68 revised full papers were carefully reviewed and selected from 159 submissions. They provide a comprehensive overview of identified challenges and recent advances in various collaborative network (CN) domains and their applications, with a strong focus on the following areas: collaborative models, platforms and systems for data-rich worlds; manufacturing ecosystem and collaboration in Industry 4.0; big data analytics and intelligence; risk, performance, and uncertainty in collaborative data-rich systems; semantic data/service discovery, retrieval, and composition in a collaborative data-rich world; trust and sustainability analysis in collaborative networks; value creation and social impact of collaboration in data-rich worlds; technology development platforms supporting collaborative systems; collective intelligence and collaboration in advanced/emerging applications: collaborative manufacturing and factories of the future, e-health and care, food and agribusiness, and crisis/disaster management.

This book analyzes the effects of the latest technological advances in blockchain and artificial intelligence (AI) on business operations and strategies. Adopting an interdisciplinary approach, the contributions examine new developments that change the rules of traditional management. The chapters focus mainly on blockchain technologies and digital business in the "Industry 4.0" context, covering such topics as accounting, digitalization and use of AI in business operations and cybercrime. Intended for academics, blockchain experts, students and practitioners, the book helps business strategists design a path for future opportunities.

Hansen/Mowen's CORNERSTONES OF COST MANAGEMENT, 4E demonstrates the dynamic nature of cost accounting in today's changing business environment. The book covers functional-based cost and control, and then activity-based cost systems, giving students the skills to manage any cost management system. Developed using extensive research on student learning behavior, this book presents concepts in a unique format that speaks to how students learn. Cornerstones examples in each chapter emphasize the How, Why, and What-Ifs of basic cost management concepts, while delving into the conceptual nature of each equation or topic. Important Notice: Media content referenced

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This book examines cross-chain control centers (4C), an ambitious concept in supply chain management and logistics that is intended to foster collaboration between different supply chains to increase efficiency. It provides an overview of the main results, insights, and other developments in the academic field of horizontal collaboration. Furthermore, it gives recommendations to governments, commercial companies, and academia on how to proceed with horizontal logistics collaboration in the years to come. To link research with practice, the book takes the Dutch project on cross-chain collaboration centers (4Cs) and identifies a typology of existing patterns for horizontal collaboration in supply chains. Finally, the book zooms in on the Netherlands as a case-study of intense public-private partnerships to develop 4C as a mature logistics value proposition. It provides an overview of the accomplishments in the government supported 4C projects and offers a critical reflection of why some more ambitious and structural solutions have not found solid ground yet. The book is of value to researchers and professionals in the supply chain domain.

Gain an understanding of the principles behind cost accounting and its importance in organizational decision making and business today with the unique, reader-friendly approach in Hansen/Mowen/Heitger's COST MANAGEMENT, 5E. This edition addresses functional-based cost and control and, then, activity-based cost systems - giving you the skills to navigate any cost management system. Updates address emerging developments, including the role of data analytics in cost management today. An entire new chapter also examines global issues, such as virtual currency and blockchain. This edition's extensively researched, proven approach is tailored to the way you learn. Structured examples from familiar companies emphasize the real-world applications and relevance of what you are learning. In addition, clear explanations review the concepts behind each equation or topic, detailing the hows, whys and what-ifs. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization. With the efficiencies that big data bring to all institutions, data is continuously being collected and analyzed. However, data sets may be too complex for traditional data-processing, and therefore, different strategies must evolve to solve the issue. The field of big data works as a valuable tool for many different industries. The Research Anthology on Big Data Analytics, Architectures, and Applications is a complete reference source on big data analytics that offers the latest, innovative architectures and frameworks and explores a variety of applications within various industries. Offering an international perspective, the applications discussed within this anthology feature global representation. Covering topics such as advertising curricula, driven supply chain, and smart cities, this research anthology is ideal for data scientists, data analysts, computer engineers, software engineers, technologists, government officials, managers, CEOs, professors, graduate students, researchers, and academicians.

This proceedings book contains 21 articles that arouse the greatest interest among experts from academia, industry and scientific experts in the area of the structural transformation of industrial and economic systems on a new technological base. V Scientific International Conference «Technological Transformation: A New Role for Human, Machines and Management (TT-2020)» was held on 16-18 September 2020 in St. Petersburg at the Peter the Great St. Petersburg Polytechnic University. The conference aimed to discuss the results of system studies on the key drivers and consequences of wide digitalization in various sectors of the economy and industry, as well as in the service sector. Topics were presented: New industrial base, Virtual engineering, Diffusion of technology, Digital infrastructure, Supercomputers, Cyberphysical interface and Informatics of cognitive processes, Convergence, harmonization and integration of artificial and natural intelligence, Changing social and economic landscape and new management systems, Digital technologies in logistics, Cyberphysical systems and artificial intelligence.

This book presents a compilation of the most recent implementation of artificial intelligence methods for solving different problems generated by the COVID-19. The problems addressed came from different fields and not only from medicine. The information contained in the book explores different areas of machine and deep learning, advanced image processing, computational intelligence, IoT, robotics and automation, optimization, mathematical modeling, neural networks, information technology, big data, data processing, data mining, and likewise. Moreover, the chapters include the theory and methodologies used to provide an overview of applying these tools to the useful contribution to help to face the emerging disaster. The book is primarily intended for researchers, decision makers, practitioners, and readers interested in these subject matters. The book is useful also as rich case studies and project proposals for postgraduate courses in those specializations.

This handbook addresses the intersection between corporate sustainability and digital transformation. It analyzes the challenges and transformations required to be able to have sustainable businesses with a future orientation. Topics include current and potential social, demographic, technological, and managerial trends; the implications of the digital revolution in society and business; as well as the challenges of being sustainable, and profitable. Providing an understanding of the business reasons to incorporate a future orientation into the business strategy, this handbook facilitates an understanding of the need for profound changes in individual behavior, organizational culture, public policy, and business environments to adapt to the accelerated changes and manage business with orientation to the future.

Complex Event Processing (CEP) is a defined set of tools and techniques for analyzing and controlling the complex series of interrelated events that drive modern distributed information systems. This emerging technology helps IS and IT professionals understand what is happening within the system, quickly identify and solve problems, and more effectively utilize events for enhanced operation, performance, and security. CEP can be applied to a broad spectrum of information system challenges, including business process automation, schedule and control processes, network monitoring and performance prediction, and intrusion detection. "The Power of Events" introduces CEP and shows specifically how this innovative technology can be utilized to enhance the quality of large-scale, distributed enterprise systems. The book describes the challenges faced by today's information systems, explains fundamental CEP concepts, and highlights CEP's role within a complex and evolving contemporary context. After thoroughly introducing the concept, the book moves on to a more detailed, technical explanation of CEP,

featuring the Rapide(TM) event pattern language, reactive event pattern rules, event pattern constraints, and event processing agents. It offers practical advice on building CEP-based solutions that solve real world IS/IT problems. Readers will learn about such essential topics as: Managing the open electronic enterprise in the "global event cloud"Process architectures and on-the-fly process evolutionEvents, timing, causality, and aggregationEvent patterns and event abstraction hierarchiesCausal event tracking and information gapsMultiple views and hierarchical viewingDynamic process architecturesThe Rapide event pattern languageEvent pattern rules, constraints, and agentsEvent processing networks (EPNs)Causal models and event pattern mapsImplementing event abstraction hierarchies Several comprehensive case studies illustrate the benefits of CEP, as well as key strategies for applying the technology. Examples include the real-time monitoring of events flowing between the business processes of collaborating enterprises, and a hierarchically organized set of event-driven views of a financial trading system. One of the case studies shows how to apply CEP to network viewing and intrusion detection. The book concludes with a look at building an infrastructure for CEP, showing how the technology can provide a significant competitive advantage amidst the myriad of event-driven, Internet-based applications now coming onto the market. 0201727897B05172002

For any organization to be successful, it must operate in such a manner that knowledge and information, human resources, and technology are continually taken into consideration and managed effectively. Business concepts are always present regardless of the field or industry – in education, government, healthcare, not-for-profit, engineering, hospitality/tourism, among others. Maintaining organizational awareness and a strategic frame of mind is critical to meeting goals, gaining competitive advantage, and ultimately ensuring sustainability. The Encyclopedia of Organizational Knowledge, Administration, and Technology is an inaugural five-volume publication that offers 193 completely new and previously unpublished articles authored by leading experts on the latest concepts, issues, challenges, innovations, and opportunities covering all aspects of modern organizations. Moreover, it is comprised of content that highlights major breakthroughs, discoveries, and authoritative research results as they pertain to all aspects of organizational growth and development including methodologies that can help companies thrive and analytical tools that assess an organization's internal health and performance. Insights are offered in key topics such as organizational structure, strategic leadership, information technology management, and business analytics, among others. The knowledge compiled in this publication is designed for entrepreneurs, managers, executives, investors, economic analysts, computer engineers, software programmers, human resource departments, and other industry professionals seeking to understand the latest tools to emerge from this field and who are looking to incorporate them in their practice. Additionally, academicians, researchers, and students in fields that include but are not limited to business, management science, organizational development, entrepreneurship, sociology, corporate psychology, computer science, and information technology will benefit from the research compiled within this publication.

Global Logistics and Supply Chain Management is a comprehensive, fully up-to-date introduction to the subject. Addressing both practical and strategic perspectives, this revised and updated fourth edition offers readers a balanced and integrated presentation of Logistics and Supply Chain Management (LSCM)concepts, practices, technologies, and applications. Contributions from experts in specific areas of LSCM provide readers with real-world insights on supply chain relationships, transport security, inventory management, supply chain designs, the challenges inherent to globalization and international trade, and more. The text examines how information, materials, products, and services flow across the public and private sectors and around the world. Detailed case studies highlight LSCM practices and strategies in a wide range of contexts, from humanitarian aid and pharmaceutical supply chains to semi-automated distribution centers and port and air cargo logistics. Examples of LSCM in global corporations such as Dell Computer and Jaguar Land Rover highlight the role of new and emerging technologies. This edition features new and expanded discussion of contemporary topics including sustainability, supply chain vulnerability, and reverse logistics, and places greater emphasis on operations management.

The digital transformation is in full swing and fundamentally changes how we live, work, and communicate with each other. From retail to finance, many industries see an inflow of new technologies, disruption through innovative platform business models, and employees struggling to cope with the significant shifts occurring. This Fourth Industrial Revolution is predicted to also transform Logistics and Supply Chain Management, with delivery systems becoming automated, smart networks created everywhere, and data being collected and analyzed universally. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution provides a holistic overview of this vital subject clouded by buzz, hype, and misinformation. The book is divided into three themed-sections: Technologies such as self-driving cars or virtual reality are not only electrifying science fiction lovers anymore, but are also increasingly presented as cure-all remedies to supply chain challenges. In The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution, the authors peel back the layers of excitement that have grown around new technologies such as the Internet of Things (IoT), 3D printing, Robotic Process Automation (RPA), Blockchain or Cloud computing, and show use cases that give a glimpse about the fascinating future we can expect. Platforms that allow businesses to centrally acquire and manage their logistics services disrupt an industry that has been relationship-based for centuries. The authors discuss smart contracts, which are one of the most exciting applications of Blockchain, Software as a Service (SaaS) offerings for freight procurement, where numerous data sources can be integrated and decision-making processes automated, and marine terminal operating systems as an integral node for shipments. In The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution, insights are shared into the cold chain industry where companies respond to increasing quality demands, and how European governments are innovatively responding to challenges of cross-border eCommerce. People are a vital element of the digital transformation and must be on board to drive change. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution explains how executives can create sustainable impact and how competencies can be managed in the digital age - especially for sales executives who require urgent upskilling to remain relevant. Best practices are shared for organizational culture change, drawing on studies among senior leaders from the US, Singapore, Thailand, and Australia, and for managing strategic alliances with logistics service providers to offset risks and create cross-functional, cross-company transparency. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution provides realistic insights, a ready-to-use knowledge base, and a working vocabulary about current activities and emerging trends of the Logistics industry. Intended readers are supply chain professionals working for manufacturing, trading, and freight forwarding companies as well as students and all interested parties.

This edited volume is devoted to Big Data Analysis from a Machine Learning standpoint as presented by some of the most eminent researchers in this area. It demonstrates that Big Data

Analysis opens up new research problems which were either never considered before, or were only considered within a limited range. In addition to providing methodological discussions on the principles of mining Big Data and the difference between traditional statistical data analysis and newer computing frameworks, this book presents recently developed algorithms affecting such areas as business, financial forecasting, human mobility, the Internet of Things, information networks, bioinformatics, medical systems and life science. It explores, through a number of specific examples, how the study of Big Data Analysis has evolved and how it has started and will most likely continue to affect society. While the benefits brought upon by Big Data Analysis are underlined, the book also discusses some of the warnings that have been issued concerning the potential dangers of Big Data Analysis along with its pitfalls and challenges.

Web service technologies are redefining the way that large and small companies are doing business and exchanging information. Due to the critical need for furthering automation, engagement, and efficiency, systems and workflows are becoming increasingly more web-based. Web Services: Concepts, Methodologies, Tools, and Applications is an innovative reference source that examines relevant theoretical frameworks, current practice guidelines, industry standards and standardization, and the latest empirical research findings in web services. Highlighting a range of topics such as cloud computing, quality of service, and semantic web, this multi-volume book is designed for computer engineers, IT specialists, software designers, professionals, researchers, and upper-level students interested in web services architecture, frameworks, and security.

Business concepts in the Transportation Management

Die Erzeugung, Verknüpfung und Auswertung von großen Datenmengen (oft als „Big Data" bezeichnet) gewinnt in nahezu allen Lebensbereichen rasant an Bedeutung. Mit dieser Entwicklung sind Fragen von erheblicher gesellschaftlicher Relevanz verbunden. Die Diskussionen über eine neue Balance zwischen der Ausschöpfung von Innovationspotentialen einerseits und der Realisierung individueller und gesellschaftlicher Werte andererseits haben erst begonnen. Der Band nähert sich denen mit Big Data verbundenen gesellschaftlichen Herausforderungen aus einer multidisziplinären Perspektive.

'Supply Chain 4.0' has introduced automation into logistics and supply chain processes, exploiting predictive analytics to better match supply with demand, optimizing operations and using the latest technologies for the last mile delivery such as drones and autonomous robots. Supply Chain 4.0 presents new methods, techniques, and information systems that support the coordination and optimization of logistics processes, reduction of operational costs as well as the emergence of entirely new services and business processes. This edited collection includes contributions from leading international researchers from academia and industry. It considers the latest technologies and operational research methods available to support smart, integrated, and sustainable logistics practices focusing on automation, big data, Internet of Things, and decision support systems for transportation and logistics. It also highlights market requirements and includes case studies of cutting-edge applications from innovators in the logistics industry.

This book constitutes the refereed proceedings of the 17 International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2016, held in Yangzhou, China, in October 2016. The 68 full papers presented were carefully reviewed and selected from 115 submissions. They provide a valuable and timely sample of latest research outcomes in data engineering and automated learning ranging from methodologies, frameworks, and techniques to applications including various topics such as evolutionary algorithms; deep learning; neural networks; probabilistic modeling; particle swarm intelligence; big data analysis; applications in regression, classification, clustering, medical and biological modeling and predication; text processing and image analysis.

Seminar paper from the year 2017 in the subject Business economics - Supply, Production, Logistics, grade: 1,0, Reutlingen University, language: English, abstract: Driven by a high intensity of competition, modern companies have put much effort into reducing costs in their supply chain. Two important trends on the way to achieving that goal are globalization and lean management. Both have led to complex, highly distributed supply chains and low buffer stocks. Indeed, these mechanisms brought lower costs but at the same time an increase of vulnerability and risk in modern supply chains. Unexpected disruptions in supply chains can cause a huge impact on businesses, such as high financial expenses and supply delays on the short-term, but also negative brand reputation and falling investor confidence on the long-term. This is why the implementation of the approaches "supply chain risk management (SCRM)" and "business continuity management (BCM)" has become crucial in the sphere of top-level management. Digitization is another disruptive trend within the present economic system. The volume of available data for businesses has been increasing exponentially in the last years. But at the same time most companies have failed using these data, essential in decision-making process. These unused data offer great potential: With Big Data Analytics they could turn companies' supply chain risks into a competitive advantage. This case study deals, in virtue of the quote from JFK, with the research question: "How can IT tools support companies making their supply chains resilient?" To this effect, the first chapter describes key risks in modern supply chain in order to create a general awareness of the scope of SCRM and BCM approaches. The next chapter then compares two common supply chain strategies with a focus on resilience in order to evaluate the proposed solution at the end of this case study. Thereupon Chapter 4 answers the research question of this case study by comprising the key components of the SCRM solution "DHL Resilience 360". The last chapter evaluates the proposed solution based on the output of Chapter 3 on the one hand, and on own practical considerations on the other hand.

Many fields are beginning to implement developing practices that prove to be more efficient and environmentally friendly compared to traditional practices. This holds true for the realm of business, as organizations are redesigning their operations through the incorporation of sustainable methods. Research is needed on the specific techniques companies are using to promote efficiency and improved effectiveness using sustainability. Handbook of Research on Sustainable Supply Chain Management for the Global Economy is an essential reference source that discusses the incorporation of sustainability in various facets of business management. Featuring research on topics such as disruptive logistics, production planning, and renewable energy sources, this book is ideally designed for researchers, practitioners, students, managers, policymakers, academicians, economists, scholars, and educators seeking coverage on sustainable practices in supply chains to ensure a cleaner environment.

Big Data Analysis: New Algorithms for a New SocietySpringer

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ACCA examining team review. Our suite of study tools will provide you with all the accurate and up-to-date material you need for exam success.

In this book readers will find technological discussions on the existing and emerging technologies across the different stages of the big data value chain. They will learn about legal aspects of big data, the social impact, and about education needs and requirements. And they will discover the business perspective and how big data technology can be exploited to deliver value within different sectors of the economy. The book is structured in four parts: Part I "The Big Data Opportunity" explores the value potential of big data with a particular focus on the European context. It also describes the legal, business and social dimensions that need to be addressed, and briefly introduces the European Commission's BIG project. Part II "The Big Data Value Chain" details the complete big data lifecycle from a technical point of view, ranging from data acquisition, analysis, curation and storage, to data usage and exploitation. Next, Part III "Usage and Exploitation of Big Data" illustrates the value creation possibilities of big data applications in various sectors, including industry, healthcare, finance, energy, media and public services. Finally, Part IV "A Roadmap for Big Data Research" identifies and prioritizes the cross-sectorial requirements for big data research, and outlines the most urgent and challenging technological, economic, political and societal issues for big data in Europe. This compendium summarizes more than two years of work performed by a leading group of major European research centers and industries in the context of the BIG project. It brings together research findings, forecasts and estimates related to this challenging technological context that is becoming the major axis of the new digitally transformed business environment.

Diploma Thesis from the year 2018 in the subject Business economics - Supply, Production, Logistics, grade: 1, University of the Aegean, language: English, abstract: Current logistics operations and information systems used cannot deal with the emerging challenges. Globalization, e-commerce, cyberthreats, cumbersome organizational structures, startups disrupting the business landscape and constantly higher customer demands push companies into adopting emerging technologies which enable them to increase digitalization and automation. The fourth industrial revolution enables companies to proceed in digitalizing their operations, as building a flexible organizational structure is a challenge that needs to be addressed and adopting the digital enterprise model is a crucial step before implementing the new age technologies, as companies must add the elements of flexibility and adaptability in order to deal with the challenges at hand. Logistics 4.0, a term derived from the combination of Industry 4.0 technologies and innovations and their application on inbound and outbound logistics is a narrower concept than Industry 4.0, as it focuses on typical features, such as automation and digitalization. The technologies most commonly utilized are the Internet of Things, Big Data analytics, Augmented Reality, Unmanned Aerial Vehicles and Advanced Robotics. IoT is the pinnacle of those technologies, as it enables new data streams creation from sources previously being non-exploitable and allows companies to monitor and control mechanizations, fleets etc. by a central system. The Master thesis presents a framework that companies may follow for a Logistics 4.0 technologies implementation. The framework presents five necessary phases for the implementation, enabling the company to properly deal with the challenges that emerge. Resistance to change, high investment costs, HR-related issues, data privacy issues, IT infrastructure requirements, the public's opinion about revolutionary technologies and regulations are challenges that must be dealt with for the implementation to be smoothly completed. The case studies analysis that follows showcase the advantages and benefits of implementing Logistics 4.0 technologies. Finally, the outcome of the Master thesis is that the framework may be tested in a real-world environment for further research on the subject.

The papers in this volume present recent and highly relevant topics in the fields of production research as 3D printing, additive manufacturing processes, agile product development, change dynamics in companies, configurable material systems, data analysis in process optimization, future technologies with high potential in value creation, global production, learning production systems, production of the future, organization of assemblies, resource efficiency in production, robotics in assembly, and technology trends in machine tools. Researchers and practitioners in the field of mechanical engineering and production technology will benefit from this content.

Development in information and communication technologies has led to the advancement of business and enabled enterprises to produce on a global scale. Productivity is a key function in maintaining a competitive advantage in today's market. The internet of things has rapidly become prevalent in the productivity efforts of businesses. Understanding these technologies and how to implement them into current business practices is vital for researchers and practitioners. Internet of Things (IoT) Applications for Enterprise Productivity is a collection of innovative research on the advancing methods productivity efforts of business through the implementation of the internet of things. While highlighting topics including employee motivation, enterprise productivity, and supply chain tracking, this book is ideally designed for manufacturing professionals, industrialists, engineers, managers, practitioners, academicians, and students seeking current research on enterprise production systems and its transformation using internet of things technologies.

This book constitutes the proceedings of the 8th International Conference on Big Data Analytics, BDA 2020, which took place during December 15-18, 2020, in Sonepat, India. The 11 full and 3 short papers included in this volume were carefully reviewed and selected from 48 submissions; the book also contains 4 invited and 3 tutorial papers. The contributions were organized in topical sections named as follows: data science systems; data science architectures; big data analytics in healthcare; information interchange of Web data resources; and business analytics.

The development of business intelligence has enhanced the visualization of data to inform and facilitate business management and strategizing. By implementing effective data-driven techniques, this allows for advance reporting tools to cater to company-specific issues and challenges. The Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence is a key resource on the latest advancements in business applications and the use of mining software solutions to achieve optimal decision-making and risk management results. Highlighting innovative studies on data warehousing, business activity monitoring, and text mining, this publication is an ideal reference source for research scholars, management faculty, and practitioners.

Master decision modeling and analytics through realistic examples, intuitive explanations, and tested Excel templates. Business Analytics with Management Science has been designed to help students, practitioners and managers use business analytics to improve decision-making systems. Unlike previous books, it emphasizes the application of practical management science techniques in business analytics. Drawing on 20+ years of teaching and consulting experience, Dr. Arben Asllani introduces decision analytics through realistic examples and intuitive explanations – not complex formulae and theoretical definitions. Throughout, Asllani helps practitioners focus more on the crucial input-output aspects of decision making – and less upon internal model complexities that can usually be "delegated" to software.

Managerial Accounting, 4th edition presents a modern and practical approach to managerial accounting through a combination of unique and flexible learning units, real-world concepts, and integrated practice, all within the business context. Praised for its decision-making framework, C&C Sports Continuing Case Story, and Data Analytics Cases, this new edition helps students develop a thorough understanding of how businesses make informed decisions and builds the skills required to be successful in tomorrow's workplace.

Digital technology has changed the way we work, socialize, shop, play and learn. This book offers a stimulating exploration of how digitization has begun transforming the prevailing global logistics system into a self-service and sharing economy, and ultimately provides a vision of the monumental changes likely to overflow into the business landscape.

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.

In order to build a sustainable transport system for people and goods that meets the needs of all users, a truly integrated and seamless approach is needed, and the full potential of transformative technologies has to be exploited. This can only be achieved if user-centeredness, cross-modality and technology transfer become the paradigm of shaping future transport. Mobility4EU is a project funded by the European Commission that focusses on these topics and is working on delivering an action plan towards a user-centric and cross-modal European transport system in 2030. The authors of this contributed volume are dedicated scholars and practitioners connected to Mobility4EU either as partners or external contributors. Their contributions focus on understanding user needs and report on technologies and approaches that support the tailoring of a user-centered cross-modal transport system for passengers and freight on long distances and in the urban context.

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