

Download Ebook Control Performance Analytics Services Siemens Read Pdf Free

Eurasian Business and Economics Perspectives *Engineering Analysis With NX Advanced Simulation* **Evolving Business Models** Optimal Solution for the Creation of Brand Awareness for Greater Market Share Acquisition of Siemens Mobility B.V. **Tecnomatix Plant Simulation** **Managing Industrial Services** **Competitive Drivers for Improving Future Business Performance** **Artificial Intelligence Supported Educational Technologies** *Sustainable Business: Concepts, Methodologies, Tools, and Applications* Disruptive Technology: Concepts, Methodologies, Tools, and Applications Managerial Issues in Digital Transformation of Global Modern Corporations *Process Mining in Action* **Global Strategic Management** *Developing a Data Warehouse for the Healthcare Enterprise: Lessons from the Trenches* **Adoption of Data Analytics in Higher Education** **Learning and Teaching A Beginner's Guide to Learning Analytics** *Infonomics Data Science for Modern Manufacturing* *Data Mining and Learning Analytics* **Big Data and Learning Analytics in Higher Education** *Analyzing the Impacts of Industry 4.0 in Modern Business Environments* **The AI Ladder** *Future Access Enablers for Ubiquitous and Intelligent Infrastructures* **Dienstleistung in der digitalen Gesellschaft** **Data Spaces** *Factories of the Future: Manager's Guide to Industry 4.0* Learning Analytics in Higher Education **Intelligent Data-Analytics for Condition Monitoring** **Digital Maintenance Management** **Learning Analytics: Fundamentals, Applications, and Trends** Integrating AI in IoT Analytics on the Cloud for Healthcare Applications **NoSQL The Business of Data** **The Oil & Gas Year Kuwait 2019** *Analysis and Analyzers* *Smart Service Management* **Computer and ICT in Education II** **Shaping the University of the Future** **Data Analytics for Accounting** The Business Year: Abu Dhabi 2020

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This book describes process mining use cases and business impact along the value chain, from corporate to local applications, representing the state of the art in domain know-how. Providing a set of industrial case studies and best practices, it complements academic publications on the topic. Further the book reveals the challenges and failures in order to offer readers practical insights and guidance on how to avoid the pitfalls and ensure successful operational deployment. The book is divided into three parts: Part I provides an introduction to the topic from fundamental principles to key success factors, and an overview of operational use cases. As a holistic description of process mining in a business environment, this part is particularly useful for readers not yet familiar with the topic. Part II presents detailed use cases written by contributors from a variety of functions and industries. Lastly, Part III provides a brief overview of the future of process mining, both from academic and operational perspectives. Based on a solid academic foundation, process mining has received increasing interest from operational businesses, with many companies already reaping the benefits. As the first book to present an overview of successful industrial applications, it is of particular interest to professionals who want to learn more about the possibilities and opportunities this new technology offers. It is also a valuable resource for researchers looking for empirical results when considering requirements for enhancements and further developments. The manufacturing world is undergoing a massive digital transformation. Smart and connected infrastructures powered by artificial intelligence are bringing about yet another industrial revolution. Data based innovation is creating unprecedented opportunities for optimizing processes and gaining competitive advantage through new business models. In this book, we follow the magnificent story of the first three

industrial revolutions in the tracks of great scientists, engineers and industrialists of yesterday, all the way up to cyber physical systems that will redefine the manufacturing value chain. Smart manufacturing revolution is rebuilding the factory from the ground up, changing old ways of doing business. Join me on this journey where we cover all the basic concepts and enabling technologies, then move on to formulate viable strategies on the path to Industry 4.0; for creating the Factories of the Future. The Instrument and Automation Engineers' Handbook (IAEH) is the #1 process automation handbook in the world. Volume two of the Fifth Edition, Analysis and Analyzers, describes the measurement of such analytical properties as composition. Analysis and Analyzers is an invaluable resource that describes the availability, features, capabilities, and selection of analyzers used for determining the quality and compositions of liquid, gas, and solid products in many processing industries. It is the first time that a separate volume is devoted to analyzers in the IAEH. This is because, by converting the handbook into an international one, the coverage of analyzers has almost doubled since the last edition. Analysis and Analyzers: Discusses the advantages and disadvantages of various process analyzer designs Offers application- and method-specific guidance for choosing the best analyzer Provides tables of analyzer capabilities and other practical information at a glance Contains detailed descriptions of domestic and overseas products, their features, capabilities, and suppliers, including suppliers' web addresses Complete with 82 alphabetized chapters and a thorough index for quick access to specific information, Analysis and Analyzers is a must-have reference for instrument and automation engineers working in the chemical, oil/gas, pharmaceutical, pollution, energy, plastics, paper, wastewater, food, etc. industries. About the eBook The most important new feature of the IAEH, Fifth Edition is its availability as an eBook. The eBook provides the same content as the print edition, with the addition of thousands of web addresses so that readers can reach suppliers or reference books and articles on the hundreds of topics covered in the handbook. This feature includes a complete bidders' list that allows readers to issue their specifications for competitive bids from any or all potential product suppliers. Addresses the impacts of data mining on education and reviews applications in educational research teaching, and learning This book discusses the insights, challenges, issues, expectations, and practical implementation of data mining (DM) within educational mandates. Initial series of chapters offer a general overview of DM, Learning Analytics (LA), and data collection models in the context of educational research, while also defining and discussing data mining's four guiding principles— prediction, clustering, rule association, and outlier detection. The next series of chapters showcase the pedagogical applications of Educational Data Mining (EDM) and feature case studies drawn from Business, Humanities, Health Sciences, Linguistics, and Physical Sciences education that serve to highlight the successes and some of the limitations of data mining research applications in educational settings. The remaining chapters focus exclusively on EDM's emerging role in helping to advance educational research—from identifying at-risk students and closing socioeconomic gaps in achievement to aiding in teacher evaluation and facilitating peer conferencing. This book features contributions from international experts in a variety of fields. Includes case studies where data mining techniques have been effectively applied to advance teaching and learning Addresses applications of data mining in educational research, including: social networking and education; policy and legislation in the classroom; and identification of at-risk students Explores Massive Open Online Courses (MOOCs) to study the effectiveness of online networks in promoting learning and understanding the communication patterns among users and students Features supplementary resources including a primer on foundational aspects of educational mining and learning analytics Data Mining and Learning Analytics: Applications in Educational Research is written for both scientists in EDM and educators interested in using and integrating DM and LA to improve education and advance educational research. If you're interested in engineering analysis applications for various product development tasks, then you need to add this technical guide to your bookshelf. Written by a team of engineers at Siemens PLM Software, it provides deep insights about finite element analysis and will help anyone interested in computer-aided engineering. NX Advanced Simulation is a feature-rich system for multi-physics calculations that can be used to study strength and dynamics, aerodynamic performance, internal and external flow of liquids and gases, cooling systems, experimental engineering, and more. Whether you're just starting out as an engineer or are an experienced professional, you'll be delighted by the insights and practical knowledge in Engineering Analysis with NX Advanced Simulation. In the increasingly competitive corporate sector, businesses must examine their current practices to ensure business success. By examining their social, financial, and environmental risks, obligations, and opportunities, businesses can re-design their operations more effectively to ensure prosperity. Sustainable Business: Concepts, Methodologies, Tools, and Applications is a vital reference source that explores the best practices that promote business sustainability, including examining how economic, social, and environmental aspects are related to each other in the company's management and performance. Highlighting a range of topics such as lean manufacturing, sustainable business model innovation, and ethical consumerism, this multi-volume book is ideally designed for entrepreneurs, business executives, business professionals, managers, and academics seeking current research on sustainable business practices. Die Digitalisierung revolutioniert in rasantem Tempo die Dienstleistungsbranche. Das Buch dokumentiert die Chancen und Risiken, die diese Entwicklung mit sich bringt, in ihrer ganzen Komplexität. Experten aus Wirtschaft, Wissenschaft, Politik und Gewerkschaften präsentieren innovative Praxisbeispiele, Forschungsergebnisse und Prognosen für eine nachhaltige Gestaltung von Wirtschaft und Arbeit. This book discusses the advanced databases for the cloud-based application known as NoSQL. It will explore the recent advancements in NoSQL database technology. Chapters on structured, unstructured and hybrid databases will be included to explore bigdata analytics, bigdata storage and processing. The book is likely to cover a wide range of topics such as cloud computing, social computing, bigdata and advanced databases processing techniques. Intelligent Data-Analytics for Condition Monitoring: Smart Grid Applications looks at intelligent and meaningful uses of data required for an optimized, efficient engineering processes. In addition, the book provides application perspectives of various deep learning models for the condition monitoring of electrical equipment. With chapters discussing the fundamentals of machine learning and data analytics, the book is divided into two parts, including i) The application of intelligent data analytics in Solar PV fault diagnostics, transformer health monitoring and faults diagnostics, and induction motor faults and ii) Forecasting issues using data analytics which looks at global solar radiation forecasting, wind data forecasting, and more. This reference is useful for all engineers and researchers who need preliminary knowledge on data analytics fundamentals and the working methodologies and architecture of smart grid systems. Features deep learning methodologies in smart grid deployment and maintenance applications Includes coding for intelligent data analytics for each application Covers advanced problems and solutions of smart grids using advance data analytic techniques The increasing importance of industrial services and rapid digitalization towards smart and remote services pose opportunities as well as challenges to the manufacturing sector. This book provides a holistic understanding of industrial service management and guides companies into building capabilities and management practices for smart and remote services. By combining insights from research and practice, it offers a unique perspective on the core and enabling activities of manufacturing companies for growth in the service business. In essence, the first part covers action-based research findings regarding service strategy, organizational design, service innovation, service sales, services operations, and customer relationship management together with insights into value networks. The second part introduces outstanding practices from leading manufacturing companies in industrial and smart services. The book concludes with a summary of key messages and recommendations to navigate the landscape of industrial and smart service management successfully. "The oil and gas production contribution from new prospects is critical to achieving our production targets." Emad Al Sultan, CEO, Kuwait Oil Company The Oil & Gas Year's Kuwait 2019 edition illustrates Kuwait's ambitious targets to ramp up crude oil production and rank among the top producers globally, while increasing refining capacity for added value. "Compared with what is happening in the region, this is a golden era for Kuwait. This is due to the ambitious strategy KPC has launched in trying to reach a certain level of production." Tareq Qaddumi, CEO, SPETCO International Petroleum Company Our latest country report on Kuwait highlights investment opportunities in heavy oil, EOR and technology – key pillars to achieving the country's 2045 production goals. Produced in collaboration with KPC and in partnership with the Kuwait Direct Investment Promotion Authority, this latest edition of The Oil & Gas Year's Kuwait series provides foresight to oil and gas investors on the current investment climate and growing business opportunities in the market. The proliferation of entrepreneurship, technological and business innovations, emerging social trends and lifestyles, employment patterns, and other developments in the global context involve creative destruction that transcends geographic and political boundaries and economic sectors and industries. This creates a need for an

interdisciplinary exploration of disruptive technologies, their impacts, and their implications for various stakeholders widely ranging from government agencies to major corporations to consumer groups and individuals. *Disruptive Technology: Concepts, Methodologies, Tools, and Applications* is a vital reference source that examines innovation, imitation, and creative destruction as critical factors and agents of socio-economic growth and progress in the context of emerging challenges and opportunities for business development and strategic advantage. Highlighting a range of topics such as IT innovation, business strategy, and sustainability, this multi-volume book is ideally designed for entrepreneurs, business executives, business professionals, academicians, and researchers interested in strategic decision making using innovations and competitiveness. This book is about the rise of data as a driver of innovation and economic growth. It charts the evolution of business data as a valuable resource and explores some of the key business, economic and social issues surrounding the data-driven revolution we are currently going through. Readers will gain an understanding of the historical underpinnings of the data business and why the collection and use of data has been driven by commercial needs. Readers will also gain insights into the rise of the modern data-driven technology giants, their business models and the reasons for their success. Alongside this, some of the key social issues including privacy are considered and the challenges these pose to policymakers and regulators. Finally, the impact of pervasive computing and the Internet of Things (IoT) is explored in the context of the new sources of data that are being generated. This book is useful for students and practitioners wanting to better understand the origins and drivers of the current technological revolution and the key role that data plays in innovation and business success.

Seminar paper from the year 2022 in the subject Business economics - Offline Marketing and Online Marketing, , language: English, abstract: Siemens Mobility is a separately managed subsidiary of Siemens AG. The company was formed following the corporate restructure of Siemens AG with its global headquarters in Munich, Germany. Siemens Mobility has four core business units; Mobility management which is focused on intelligent traffic and rail technology systems, Rolling Stock, Railway Electrification, and finally Customer Services. The according to the company's Annual Report for 2018, the company recorded revenues of €8.8 billion in the 2018 financial year (FY). The parent organization (Siemens AG) has over 34,000 employees for the period. The main services offered by Siemens Mobility include Mobile Apps, data analytics, mobility as a service (MaaS) and maintenance (Siemens Nederland, 2019). The organization operates in several industries such as transportation, control systems, digital services as well as railways. In the Netherlands, the company operates as Siemens Mobility B.V.; which is going to be the focus of the research. The company has 238 employees and recorded revenues of US \$105.17 million in the 2019 financial year; as noted in the Siemens Nederland annual report for 2019, the number of employees of the parent Dutch company reduced from 1,139 to 935 from 2018 to 2019 due to the sale of the Mobility and Mechanical Drives businesses during 2018. As stated earlier in the report, Siemens Mobility is part of Siemens AG; with the focus on the organization being in the provision of environmentally friendly and reliable transportation systems. The company offers expertise in the delivery of excellent customer service, and pleasant experiences for transportation customers. The portfolio of products includes vehicles, light metros, infrastructure, as well as regional high-speed trains. The author is acting as research at Siemens Mobility BV's Marketing Department located in Zoetermeer, Nederland. The scope of the problem explored in the research is relevant to the marketing department, but the effects of the problem are crosscutting across the whole of Siemens Mobility B.V. This book systematically introduces the development of simulation models as well as the implementation and evaluation of simulation experiments with Tecnomatix Plant Simulation. It deals with all users of Plant Simulation, who have more complex tasks to handle. It also looks for an easy entry into the program. Particular attention has been paid to introduce the simulation flow language SimTalk and its use in various areas of the simulation. The author demonstrates with over 200 examples how to combine the blocks for simulation models and how to deal with SimTalk for complex control and analysis tasks. The contents of this book ranges from a description of the basic functions of the material flow blocks to demanding topics such as the realization of a database-supported warehouse control by using the SQLite interface or the exchange of data by using XML, ActiveX, COM or DDE. EBES conferences have been intellectual hub for academic discussion in economics, finance, and business fields and provide network opportunities for participants to make long lasting academic cooperation. This is the 21st issue of the Eurasian Studies in Business and Economics (EBES's official proceeding series) which includes selected papers from the 34rd EBES Conference – Athens. Due to the COVID-19, the conference presentation mode has been switched to "online/virtual presentation only". In the conference, 148 papers by 296 colleagues from 40 countries were presented. Both theoretical and empirical papers in this volume cover diverse areas of business, economics, and finance from many different regions. Therefore, it provides a great opportunity to colleagues, professionals, and students to catch up with the most recent studies in different fields and empirical findings on many countries and regions. This book focuses on developing an understanding of the complex interplay of forces acting on individual universities and higher education systems to enable leaders and practitioners to take purposeful and strategic action. It explores the challenging landscape of higher education and the pressures that are reshaping the university as a societal institution, describing the complex interplay of technological, sociological, political and economic forces driving change. The issues analysed are global in scope, reflecting the diversity of contexts, but also the common nature of the challenges facing institutions individually and collectively. The analysis draws on the lessons learnt and evidence from over fifty organisational case studies undertaken by the author over the past decade, exploring organisational change in higher education institutions in New Zealand, Australia, the United States and the United Kingdom, and on his engagement as president of the ACODE organisation with colleagues responsible for learning technological change in Australasia. The book helps institutions respond to technological change purposefully, in ways that build upon a clear understanding of the complex nature of the existing institution, its students and the organisational context. The globalized economy, dominated by the diffusion of innovation and social, political, and economic changes, allows people and knowledge to flow without knowing what lies ahead. As new economies emerge and technologies impose significant changes, the internationalization of markets and industries has made defining its delimitation more difficult. *Competitive Drivers for Improving Future Business Performance* is a conceptualized reference source that discusses the use of digital skills to manage change in volatile contexts and provides fundamental understanding of competitive advantage to guarantee superior performances. To assure this level of performance, a set of choices (drivers) must be created ensuring operational efficiency, innovative products, customer knowledge-base, and focused branding. Featuring research on topics such as consumer experience, strategic leadership, and flexible technologies, this book is ideally designed for managers, executives, entrepreneurs, academicians, consulting professionals, researchers, industry professionals, and students seeking coverage on how to improve competitive performance in an era of uncertainty. ?This book focuses on the uses of big data in the context of higher education. The book describes a wide range of administrative and operational data gathering processes aimed at assessing institutional performance and progress in order to predict future performance, and identifies potential issues related to academic programming, research, teaching and learning?. Big data refers to data which is fundamentally too big and complex and moves too fast for the processing capacity of conventional database systems. The value of big data is the ability to identify useful data and turn it into useable information by identifying patterns and deviations from patterns?. *Learning Analytics in Higher Education* provides a foundational understanding of how learning analytics is defined, what barriers and opportunities exist, and how it can be used to improve practice, including strategic planning, course development, teaching pedagogy, and student assessment. Well-known contributors provide empirical, theoretical, and practical perspectives on the current use and future potential of learning analytics for student learning and data-driven decision-making, ways to effectively evaluate and research learning analytics, integration of learning analytics into practice, organizational barriers and opportunities for harnessing Big Data to create and support use of these tools, and ethical considerations related to privacy and consent. Designed to give readers a practical and theoretical foundation in learning analytics and how data can support student success in higher education, this book is a valuable resource for scholars and administrators. This book provides a conceptual and empirical perspective on learning analytics, its goal being to disseminate the core concepts, research, and outcomes of this emergent field. Divided into nine chapters, it offers reviews oriented on selected topics, recent advances, and innovative applications. It presents the broad learning analytics landscape and in-depth studies on higher education, adaptive assessment, teaching and learning. In addition, it discusses valuable approaches to coping with personalization and huge data, as well as conceptual topics and specialized applications that have shaped the current state of the art. By identifying fundamentals, highlighting applications, and pointing out current trends, the book offers an essential overview

of learning analytics to enhance learning achievement in diverse educational settings. As such, it represents a valuable resource for researchers, practitioners, and students interested in updating their knowledge and finding inspirations for their future work. Seamlessly blending academic rigour and practicality, this textbook provides an introduction to global business strategy. Assuming a born global perspective, Global Strategic Management is supported by ample pedagogical features, including numerous case studies and examples featuring both established multinationals and unknown SMEs from across the globe. The book takes an applied approach to global business strategy, emphasising functional parts of international business (managing marketing, operations, HR and finance). The text has been widely updated to incorporate the impacts of the Covid-19 pandemic, such as work from anywhere and deglobalization. New to this fifth edition is increased material on sustainability and corporate social responsibility, including discussion of climate change, NGOs and sustainable development goals. Subjects such as the impact of technology, cryptocurrency and global strategy in the digital space are discussed in more detail, while the conflict in Ukraine is also considered. The book aims to advance global knowledge and practice in applying data science to transform higher education learning and teaching to improve personalization, access and effectiveness of education for all. Currently, higher education institutions and involved stakeholders can derive multiple benefits from educational data mining and learning analytics by using different data analytics strategies to produce summative, real-time, and predictive or prescriptive insights and recommendations. Educational data mining refers to the process of extracting useful information out of a large collection of complex educational datasets while learning analytics emphasizes insights and responses to real-time learning processes based on educational information from digital learning environments, administrative systems, and social platforms. This volume provides insight into the emerging paradigms, frameworks, methods and processes of managing change to better facilitate organizational transformation toward implementation of educational data mining and learning analytics. It features current research exploring the (a) theoretical foundation and empirical evidence of the adoption of learning analytics, (b) technological infrastructure and staff capabilities required, as well as (c) case studies that describe current practices and experiences in the use of data analytics in higher education. This book addresses the core challenges currently faced by traditional companies. In the age of digitization many industries are now challenged by disruptions of the traditional value chain: new competitors are coming into play, traditional products don't sell any more, and profits are at risk. As such, CEOs need to adopt new business models for these established industries, while many companies have to reinvent themselves by developing new products for new markets. In this book, leading CEOs share their experiences in transforming established companies. They provide insights on transforming industries and demonstrate what it takes to redefine companies from the ground up. Issues such as organizational transformation, new product development, implementing a new organizational spirit, and many more are discussed. As Ecuador and the world at large grapple with the emerging challenge of the COVID-19 pandemic, it is important not to forget the fundamentals of the Ecuadorian economy and the success stories of 2019 and the start of 2020. We believe contained within these pages is an accurate, balanced account of the state of the Ecuadorian economy as of publication, told through the words of the dozens of top public- and private-sector figures. The Business Year's country-specific publications, sometimes featuring over 150 face-to-face interviews, are among the most comprehensive annual economic publications available internationally. This 212-page publication covers green economy, finance, hydrocarbons, mining, agriculture, construction, industry, transport, education, health, ICT, and tourism. This edition is a straightforward view of a clinical data warehouse development project, from Inception through Implementation and follow-up. Through first-hand experiences from Individuals charged with the Implementation, this book offers guidance and multiple perspectives on the data warehouse development process--from the Initial vision to system-wide release. The book provides valuable lessons learned during a data warehouse Implementation at King Faisal Specialist Hospital and Research Center (KFSH & RC) in Riyadh, Saudi Arabia, a large, modern, tertiary-care hospital with an IT environment that parallels a typical U.S. hospital. This is the first edition and second part of Computer and ICT in Education made for B.Sc. B.Ed., B.A. B.Ed. Courses. Using expertly crafted explanations, insider tips, and examples, the author explains and demonstrates every aspect of ICT in education. Inside you'll find details on the entire use of ICT in education including ICT Assessment tools, ICT and Management, ICT for Professional Development, and Emerging Trends in ICT Applications. Everything is presented in a clear, crisp, uncompromising style that has made the learner easy to understand. In order to improve competitiveness and performance, corporations must embrace advancements in digitalization. Successful implementation of knowledge management is a huge factor in corporate success. Analyzing the Impacts of Industry 4.0 in Modern Business Environments is a critical scholarly publication that explores digital transformation in business environments and the requirement for not only a substantial management change plan but equally the two essential components of knowledge management: knowledge sharing and knowledge transfer. Featuring a broad range of topics such as strategic planning, knowledge transfer, and cybersecurity risk management, this book is geared toward researchers, academicians, and students seeking current and relevant research on organizational knowledge intensity and monitoring of knowledge management development. AI may be the greatest opportunity of our time, with the potential to add nearly \$16 trillion to the global economy over the next decade. But so far, adoption has been much slower than anticipated, or so headlines may lead you to believe. With this practical guide, business leaders will discover where they are in their AI journey and learn the steps necessary to successfully scale AI throughout their organization. Authors Rob Thomas and Paul Zikopoulos from IBM introduce C-suite executives and business professionals to the AI Ladder—a unified, prescriptive approach to help them understand and accelerate the AI journey. Complete with real-world examples and real-life experiences, this book explores AI drivers, value, and opportunity, as well as the adoption challenges organizations face. Understand why you can't have AI without an information architecture (IA) Appreciate how AI is as much a cultural change as it is a technological one Collect data and make it simple and accessible, regardless of where it lives Organize data to create a business-ready analytics foundation Analyze data, and build and scale AI with trust and transparency Infuse AI throughout your entire business and create intelligent workflows This open access book aims to educate data space designers to understand what is required to create a successful data space. It explores cutting-edge theory, technologies, methodologies, and best practices for data spaces for both industrial and personal data and provides the reader with a basis for understanding the design, deployment, and future directions of data spaces. The book captures the early lessons and experience in creating data spaces. It arranges these contributions into three parts covering design, deployment, and future directions respectively. The first part explores the design space of data spaces. The single chapters detail the organisational design for data spaces, data platforms, data governance federated learning, personal data sharing, data marketplaces, and hybrid artificial intelligence for data spaces. The second part describes the use of data spaces within real-world deployments. Its chapters are co-authored with industry experts and include case studies of data spaces in sectors including industry 4.0, food safety, FinTech, health care, and energy. The third and final part details future directions for data spaces, including challenges and opportunities for common European data spaces and privacy-preserving techniques for trustworthy data sharing. The book is of interest to two primary audiences: first, researchers interested in data management and data sharing, and second, practitioners and industry experts engaged in data-driven systems where the sharing and exchange of data within an ecosystem are critical. This book constitutes the refereed post-conference proceedings of the 5th International Conference on Future Access Enablers for Ubiquitous and Intelligent Infrastructures, FABULOUS 2021, held in May 2021. Due to COVID-19 pandemic the conference was held virtually. This year's conference topic covers security of innovative services and infrastructure in traffic, transport and logistic ecosystems. The 30 revised full papers were carefully reviewed and selected from 60 submissions. The papers are organized in thematic sessions on: Internet of things and smart city; smart environment applications; information and communications technology; smart health applications; sustainable communications and computing infrastructures. Efficient management of managerial tasks by capable managers is essential in order to grow and remain competitive in today's global business market. On the other hand, digital transformation enables organizations to better compete with their global counterparts. In the process of digital transformation, many firms find it difficult to acquire qualified leadership with adequate knowledge and competence to drive success. Without integrating the dual edges of managerial competence and digital evolution, it is next to impossible for a firm to both survive and grow. Managerial Issues in Digital Transformation of Global Modern Corporations is a critical scholarly publication that examines current challenges in the digital transformation of modern business corporations from a managerial and leadership perspective. Featuring a wide range of topics such as digital transformation, marketing, and global business, this

book is ideal for corporate executives, managers, IT specialists, entrepreneurs, business administrators, industry practitioners, academicians, researchers, policymakers, and students from various relevant disciplines that include economics, information and technology, business administration, management science, and commerce. This book presents the main theoretical foundations behind smart services as well as specific guidelines and practically proven methods on how to design them. Furthermore, it gives an overview of the possible implementation architectures and shows how the designed smart services can be realized with specific technologies. Finally, it provides four specific use cases that show how smart services have been realized in practice and what impact they have within the businesses. The first part of the book defines the basic concepts and aims to establish a shared understanding of terms, such as smart services, service systems, smart service systems or cyber-physical systems. On this basis, it provides an analysis of existing work and includes insights on how an organization incorporating smart services could enhance and adjust their management and business processes. The second part on the design of smart services elaborates on what constitutes a successful smart service and describes experiences in the area of interdisciplinary teams, strategic partnerships, the overall service systems and the common data basis. In the third part, technical reference architectures are presented in detail, encompassing topics on the design of digital twins in cyber physical systems, the communication between entities and sensors in the age of Industry 4.0 as well as data management and integration. The fourth part then highlights a number of analytical possibilities that can be realized and that can constitute or be part of smart services, including machine learning and artificial intelligence methods. Finally, the applicability of the introduced design and development method is demonstrated by considering specific real-world use cases. These include services in the industrial and mobility sector, which were developed in direct cooperation with industry partners. The main target audience of this book is industry-focused readers, especially practitioners from industry, who are involved in supporting and managing digital business. These include professionals working in business development, product management, strategy, and development, ranging from middle management to Chief Digital Officers. It conveys all the basics needed for developing smart services and successfully placing them on the market by explaining technical aspects as well as showcasing practical use cases. This book includes a collection of expanded papers from the 2019 Sino-German Symposium on AI-supported educational technologies, which was held in Wuhan, China, March, 2019. The contributors are distinguished researchers from computer science and learning science. The contributions are organized in four sections: (1) Overviews and systematic perspectives, (2) Example Systems, (3) Algorithms, and (4) Insights gained from empirical studies. For example, different data mining and machine learning methods to quantify different profiles of a learner in different learning situations (including interaction patterns, cognitive modes, knowledge skills, interests and emotions etc.) as well as connections to measurements in psychology and learning sciences are discussed in the chapters. Many senior executives talk about information as one of their most important assets, but few behave as if it is. They report to the board on the health of their workforce, their financials, their customers, and their partnerships, but rarely the health of their information assets. Corporations typically exhibit greater discipline in tracking and accounting for their office furniture than their data. Infonomics is the theory, study, and discipline of asserting economic significance to information. It strives to apply both economic and asset management principles and practices to the valuation, handling, and deployment of information assets. This book specifically shows: CEOs and business leaders how to more fully wield information as a corporate asset CIOs how to improve the flow and accessibility of information CFOs how to help their organizations measure the actual and latent value in their information assets. More directly, this book is for the burgeoning force of chief data officers (CDOs) and other information and analytics leaders in their valiant struggle to help their organizations become more infosavvy. Author Douglas Laney has spent years researching and developing Infonomics and advising organizations on the infinite opportunities to monetize, manage, and measure information. This book delivers a set of new ideas, frameworks, evidence, and even approaches adapted from other disciplines on how to administer, wield, and understand the value of information. Infonomics can help organizations not only to better develop, sell, and market their offerings, but to transform their organizations altogether. "Doug Laney masterfully weaves together a collection of great examples with a solid framework to guide readers on how to gain competitive advantage through what he labels "the unruly asset" – data. The framework is comprehensive, the advice practical and the success stories global and across industries and applications." Liz Rowe, Chief Data Officer, State of New Jersey "A must read for anybody who wants to survive in a data centric world." Shaun Adams, Head of Data Science, Betterbathrooms.com "Phenomenal! An absolute must read for data practitioners, business leaders and technology strategists. Doug's lucid style has a set a new standard in providing intelligible material in the field of information economics. His passion and knowledge on the subject exudes thru his literature and inspires individuals like me." Ruchi Rajasekhar, Principal Data Architect, MISO Energy "I highly recommend Infonomics to all aspiring analytics leaders. Doug Laney's work gives readers a deeper understanding of how and why information should be monetized and managed as an enterprise asset. Laney's assertion that accounting should recognize information as a capital asset is quite convincing and one I agree with. Infonomics enjoyably echoes that sentiment!" Matt Green, independent business analytics consultant, Atlanta area "If you care about the digital economy, and you should, read this book." Tanya Shuckhart, Analyst Relations Lead, IRI Worldwide This book provides a thorough overview of the integration of cyber-physical systems and maintenance management models. It begins by explaining the fundamental concepts behind maintenance digital transformation. It discusses key decision areas in digital maintenance management, particularly focusing on strategic dimensions of maintenance, digital twin definition and strategy, and industry 4.0 digital tools frameworks to support emerging maintenance processes. Furthermore, the monograph dedicates time to the integration of digital maintenance with the entire digital factory. By presenting the possibilities for asset utilization improvement and for asset value enhancements, Digital Maintenance Management provides engineers and practitioners responsible for the management of complex industrial assets a complete guide to piloting the maintenance digital transformation. This book A Beginner's Guide to Learning Analytics is designed to meet modern educational trends' needs. It is addressed to readers who have no prior knowledge of learning analytics and functions as an introductory text to learning analytics for those who want to do more with evaluation/assessment in their organizations. The book is useful to all who need to evaluate their learning and teaching strategies. It aims to bring greater efficiency and deeper engagement to individual students, learning communities, and educators. Covered here are the key concepts linked to learning analytics for researchers and practitioners interested in learning analytics. This book helps those who want to apply analytics to learning and development programs and helps educational institutions to identify learners who require support and provide a more personalized learning experience. Like chapters show diverse uses of learning analytics to enhance student and faculty performance. It presents a coherent framework for the effective translation of learning analytics research for educational practice to its practical application in different educational domains. This book provides educators and researchers with the tools and frameworks to effectively make sense of and use data and analytics in their everyday practice. This book will be a valuable addition to researchers' bookshelves. Internet of things (IoT) applications employed for healthcare generate a huge amount of data that needs to be analyzed to produce the expected reports. To accomplish this task, a cloud-based analytical solution is ideal in order to generate faster reports in comparison to the traditional way. Given the current state of the world in which every day IoT devices are developed to provide healthcare solutions, it is essential to consider the mechanisms used to collect and analyze the data to provide thorough reports. Integrating AI in IoT Analytics on the Cloud for Healthcare Applications applies artificial intelligence (AI) in edge analytics for healthcare applications, analyzes the impact of tools and techniques in edge analytics for healthcare, and discusses security solutions for edge analytics in healthcare IoT. Covering topics such as data analytics and next generation healthcare systems, it is ideal for researchers, academicians, technologists, IT specialists, data scientists, healthcare industries, IoT developers, data security analysts, educators, and students.

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