Magic Quadrant For Transportation Management Systems

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T Bytes Platforms & Applications Taylor & Francis
Information Technology for Management provides students with a comprehensive understanding of the latest technological developments in IT and the critical drivers of business performance, growth, and sustainability. Integrating feedback from IT managers and practitioners from top-level organizations worldwide, the International Adaptation of this well-regarded textbook features thoroughly revised content throughout to present students with a realistic, up-to-date view of IT management in the current business environment. This text covers the latest developments in the real world of IT management with the addition of new case studies that are contemporary and more relevant to the global scenario. It offers a flexible, student-friendly presentation of the material through a pedagogy that is designed to help students easily comprehend and retain information. There is new and expanded coverage of Artificial Intelligence, Robotics, Quantum Computing, Blockchain Technology, IP Intelligence, Big Data Analytics, IT Service Management, DevOps, etc. It helps readers learn how IT is leveraged to reshape enterprises, engage and retain customers, optimize systems and processes, manage business relationships and projects, and more.
Disruptive Platforms CRC Press
Featuring an ideal balance of managerial issues and quantitative techniques, this introduction to operations management keeps pace with current innovations and issues in the field. It presents the concepts clearly and logically, showing readers how OM relates to real business. The new edition also integrates the experiences of a real company throughout each chapter to clearly illustrate the concepts. Readers will find brief discussions on how the company manages areas such as inventory and forecasting to provide a real-world perspective.
Information Technology for Management CRC Press
Intelligent systems are technologically advanced machines that perceive and respond to the world around them. Artificial Intelligence and Machine Learning for Smart Community: Concepts and Applications presents the evolution, challenges, and limitations of the application of machine learning and artificial intelligence to intelligent systems and smart communities. Covers the core and fundamental aspects of artificial intelligence, machine learning, and computational algorithms in smart intelligent systems Discusses the integration of artificial intelligence with machine learning using mathematical modeling Elaborates concepts like supervised and unsupervised learning, and machine learning algorithms, such as linear regression, logistic regression, random forest, and performance evaluation matrices Introduces modern algorithms such as convolutional neural networks and support vector machines Presents case studies on smart healthcare, smart traffic management, smart buildings, autonomous vehicles, smart education, modern community, and smart machines Artificial Intelligence and Machine Learning for Smart Community: Concepts and Applications is primarily written for graduate students and academic researchers working in the fields of computer science and engineering, electrical engineering, and information technology. Seasonal Blurb: This reference text presents the most recent and advanced research on the application of artificial intelligence and machine learning on intelligent systems. It will discuss

important topics such as business intelligence, reinforcement learning, supervised learning, and unsupervised learning in a comprehensive manner.

F & S Index United States Annual Springer Nature

The Digital Supply Chain is a thorough investigation of the underpinning technologies, systems, platforms and models that enable the design, management, and control of digitally connected supply chains. The book examines the origin, emergence and building blocks of the Digital Supply Chain, showing how and where the virtual and physical supply chain worlds interact. It reviews the enabling technologies that underpin digitally controlled supply chains and examines how the discipline of supply chain management is affected by enhanced digital connectivity, discussing purchasing and procurement, supply chain traceability, performance management, and supply chain cyber security. The book provides a rich set of cases on current digital practices and challenges across a range of industrial and business sectors including the retail, textiles and clothing, the automotive industry, food, shipping and international logistics, and SMEs. It concludes with research frontiers, discussing network science for supply chain analysis, challenges in Blockchain applications and in digital supply chain surveillance, as well as the need to re-conceptualize supply chain strategies for digitally transformed supply chains.

Your Eyes in Stars CRC Press

Border clearance processes by customs and other agencies are among the most important and problematic links in the global supply chain. Delays and costs at the border undermine a country’s competitiveness, either by taxing imported inputs with deadweight inefficiencies or by adding costs and reducing the competitiveness of exports. This book provides a practical guide to assist policy makers, administrators, and border management professionals with information and advice on how to improve border management systems, procedures, and institutions.

The Digital Transformation of Logistics Springer Science & Business Media

The concepts for Industry 4.0 and the Industrial Internet of Things (IIoT) will fundamentally change supply chains, production processes and industries. Intelligent technologies such as IoT, edge and cloud computing, big data, artificial intelligence and digital assistance systems are drivers of this change. This book provides a comprehensive overview of IoT use cases with illustrative practical examples of how digitization or innovation projects can be successfully implemented. It takes into consideration that processes are getting more flexible and efficient, and new digital technologies allow seamless, location-independent communication in near real time between things, processes and people through the digitization of physical objects and processes. Considering these changes, the book provides a guideline on how companies should position themselves for the future with industrial IoT in order to still play a decisive role in the industry in a few years' time. The book is aimed at both decision-makers and practitioners who, on the one hand, recognize the opportunities and possibilities for their company and, on the other hand, want to learn how to use the appropriate technologies. With this in mind it will be valuable for entrepreneurs, managers, architects and also developers in the field of Industry 4.0.

Lean Six Sigma Logistics IBM Redbooks

Engineering Asset Management discusses state-of-the-art trends and developments in the emerging field of engineering asset management as presented at the Fourth World Congress on Engineering Asset Management (WCEAM). It is an excellent reference for practitioners, researchers and students in the multidisciplinary field of asset management, covering such topics as asset condition monitoring and intelligent maintenance; asset data warehousing, data mining and fusion; asset performance and level-of-service models; design and life-cycle integrity of physical assets; deterioration and preservation models for assets; education and training in asset management; engineering standards in asset management; fault diagnosis and prognostics; financial analysis methods for physical assets; human dimensions in integrated asset management; information quality management; information systems and knowledge management; intelligent sensors and devices; maintenance strategies in asset management; optimisation decisions in asset management; risk management in asset management; strategic asset management; and sustainability in asset management.

Engineering Asset Management Edward Elgar Publishing

We often think of great battles as having been won by superior strategy, bravery, or weaponry. Often, however, the greatest battles are decided by a much more mundane factor: logistics. Delivering the Goods looks at business logistics through the history of successful military logistical operations undertaken by leaders from Alexander the Great to General Norman Schwarzkopf, and offers practical guidance on applying proven logistical principles to your business.

Delivering the Goods EGBG Services LLC

This new volume considers the use of smart technologies in commercial and hazardous vehicles, looking at the challenges and solutions to transportation issues that can be solved with such intelligent applications as artificial intelligence, Internet of Things, neural networks, blockchain, machine learning, big data, etc. The book illustrates the use these smart technologies for vehicle pedestrian detection, in the planning of smart cities for traffic patterns, for the improvement of transportation power stations, for smart railway cargo management systems, and more.

The Traffic World Springer Science & Business Media

This is a complete update of the best-selling undergraduate textbook on Electronic Commerce (EC). New to this 4th Edition is the addition of material on Social Commerce (two chapters); a new tutorial on the major EC support technologies, including cloud computing, RFID, and EDI; ten new learning outcomes; and video exercises added to most chapters. Wherever appropriate, material on Social Commerce has been added to existing chapters. Supplementary material includes an Instructor’s Manual; Test Bank questions for each chapter; Powerpoint Lecture Notes; and a Companion Website that includes EC support technologies as well as online files. The book is organized into 12 chapters grouped into 6 parts. Part 1 is an Introduction to E-Commerce and E-Marketplaces. Part 2 focuses on EC Applications, while Part 3 looks at Emerging EC Platforms, with two new chapters on Social Commerce and Enterprise Social Networks. Part 4 examines EC Support Services, and Part 5 looks at E-Commerce Strategy and Implementation. Part 6 is a collection of online tutorials on Launching Online Businesses and EC Projects, with tutorials focusing on e-CRM; EC Technology; Business Intelligence, including Data-, Text-, and Web Mining; E-Collaboration; and Competition in Cyberspace. the following="" tutorials="" are="" not="" related="" to="" any="" specific="" chapter.="" they="" cover="" the="" essentials="" ec="" technologies="" and="" provide="" a="" guide="" relevant="" resources.="" p

Selling and Fulfillment Solutions Using WebSphere Commerce and IBM Sterling Order Management Kogan Page Publishers

How logistics clusters can create jobs while providing companies with competitive advantage. Why is Memphis home to hundreds of motor carrier terminals and distribution centers? Why does the tiny island-nation of Singapore handle a fifth of the world's maritime containers and half the world's annual supply of crude oil? Which jobs can replace lost manufacturing jobs in advanced economies? Some of the answers to these questions are rooted in the phenomenon of logistics clusters—geographically concentrated sets of logistics-related business activities. In this book, supply chain management expert Yossi Sheffi explains why Memphis, Singapore, Chicago, Rotterdam, Los Angeles, and scores of other locations have been successful in developing such clusters while others have not. Sheffi outlines the characteristic “positive feedback loop” of logistics clusters development and what differentiates them from other industrial clusters; how logistics clusters “add value” by generating other industrial activities; why firms should locate their distribution and value-added activities in logistics clusters; and the proper role of government support, in the form of investment, regulation, and trade policy. Sheffi also argues for the most important advantage offered by logistics clusters in today's recession-plagued economy: jobs, many of them open to low-skilled workers, that are concentrated locally and not “offshorable.” These logistics clusters offer what is rare in today's economy: authentic success stories. For this reason, numerous regional and central governments as well as scores of real estate developers are investing in the development of such clusters. View a trailer for the book at: http://techtv.mit.edu/videos/22284-logistics-clusters-yossi-sheffi

Sustainable Innovations in Management in the Digital Transformation Era Mdpi AG

The purpose of this book is to provide cutting-edge information on service management such as the role services play in an economy, service strategy, ethical issues in services and service supply chains. It also covers basic topics of operations management including linear and goal programming, project management, inventory management and forecasting.This book takes a multidisciplinary approach to services and operational management challenges; it draws upon the theory and practice in many fields of study such as economics, management science, statistics, psychology, sociology, ethics and technology, to name a few. It contains chapters most textbooks do not include, such as ethics, management of public and non-profit service organizations, productivity and measurement of performance, routing and scheduling of service vehicles.An Instructor's Solutions Manual is available upon request for all instructors who adopt this book as a course text. Please send your request to sales@wspc.com.

Transportation & Distribution John Wiley & Sons

Black & white print. Principles of Management is designed to meet the scope and sequence requirements of the introductory course on management. This is a traditional approach to management using the leading, planning, organizing, and controlling approach. Management is a broad business discipline, and the Principles of Management course covers many management areas such as human resource management and strategic management, as well as behavioral areas such as motivation. No one individual can be an expert in all areas of management, so an additional benefit of this text is that specialists in a variety of areas have authored individual chapters.

Proceedings of the Sixteenth International Conference on Management Science and Engineering Management – Volume 2 John Wiley & Sons

Speed to market, reducing costs, and accelerating leadtimes are vital for survival in today's competitiveenvironment. Inventory is no longer considered an asset,and strategies are needed to operate with minimalinventories. Lean Six Sigma Logistics provides thevehicle to solidify strategic position, win overcustomers, and achieve .....

Artificial Intelligence and Machine Learning for Smart Community Springer

Industrial revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conduced significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders’ attentions due to it is ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system’s ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world.

Modern Technology for Transportation Optimization John Wiley & Sons

BLOCKCHAIN and DEEP LEARNING for SMART HEALTHCARE The book discusses the popular use cases and applications of blockchain technology and deep learning in building smart healthcare. The book covers the integration of blockchain technology and deep learning for making smart healthcare systems. Blockchain is used for health record-keeping, clinical trials, patient monitoring, improving safety, displaying information, and transparency. Deep learning is also showing vast potential in the healthcare domain. With the collection of large quantities of patient records and data, and a trend toward personalized treatments. there is a great need for automated and reliable processing and analysis of health information. This book covers the popular use cases and applications of both the above-mentioned technologies in making smart healthcare. Audience Comprises professionals and researchers working in the fields of deep learning, blockchain technology, healthcare & medical informatics. In addition, as the book provides insights into the convergence of deep learning and blockchain technology in healthcare systems and services, medical practitioners as well as healthcare professionals will find this essential reading.

Supply Chain Management John Wiley & Sons

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.

Smart Mobility and Intelligent Transportation Systems for Commercial and Hazardous Vehicles MIT CTL Media

With the world having been plunged into uncertainty during the COVID-19 pandemic, a critical issue for senior management is stabilizing their supply chain to a consistent flow of components and materials. Even before the advent of the COVID-19 pandemic, supply chain complexity had been an increasingly “hot” topic. Add to that the complexity of new tariff restrictions, port congestion, regional conflicts, and geopolitical events and disruptions due to international conflict, and it is apparent that securing access to materials and critical resources is not without difficulty, and forecasting demand is even harder. Digital Supply Chain, Disruptive Environments, and the Impact on Retailers brings together the field’s latest best practices on digital supply chain enablement, giving business professionals a comprehensive framework to ensure successful supply chain business transformation programs. Covering topics such as business planning, digital transformation, and volatile demand, this premier reference source is an excellent resource for managers, directors, vice presidents, supply chain executives, IT directors, consultants, students and educators of higher education, librarians, researchers, and academicians.

Principles of Management John Wiley & Sons

It has taken platforms only twenty years to become digital economy hubs. They have changed markets, enterprises, and society. They have expedited communication, collaboration, and trade for consumers, winning their attention and collecting their data. In doing so, they have made processes, products, and industries obsolete, and disrupted the expectations and behaviours of market players. This raises the question, are digital platforms global innovators or disruptive monopolists? Are they a solution to problems of the past or emissaries of a problematic future? This book provides a multi-faceted approach to platforms and their profound impact on markets and ecosystems. Economic, managerial, social, and political aspects are analysed, and the differentiation of platforms and their disruptive potential is reviewed. The book also examines the mechanism of achieving a monopolistic position, including in the international supply chain, and the greater influence of platforms on political activity and contemporary democracy. With examples from Poland, USA, and China, the contributions offer an international evaluation of disruptive platforms across a multitude of industries. The edited collection, prepared by scholars from the SGH Warsaw School of Economics, will be valuable to researchers and academics across the fields of strategic management, marketing, innovations, international business, and the digital economy.

Border Management Modernization IGI Global

It is with great pleasure that I welcome you to the recently concluded conference, held on May 2–3, 2023, in the beautiful Kingdom of Bahrain. This pivotal conference was focused on “Sustainable Innovations in Management in the Digital Transformation Era”. In an age defined by rapid technological advancements and digital innovation, the way we understand and carry out management is continually evolving. The conference brought together thought leaders, industry professionals, academ□ics, and innovators from around the globe to share insights, exchange ideas, and cata□lyze change. The digital transformation era has not only revolutionized our personal lives but has significantly impacted the business landscape. It became a strategic prior□ity, driving companies to reassess their business models, reinvent their strategies, and redefine their value propositions. Amidst this change, ensuring sustainability, building resilient, adaptable, and future-proof businesses became a central theme.

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