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Big Data Analytics in Supply Chain Management Iman Rahimi, Amir H. Gandomi, Simon James Fong, M. Ali Ülkü, 2020-12-20 In a world of soaring digitization social media financial transactions and production and logistics processes constantly produce massive data Employing analytical tools to extract insights and foresights from data improves the quality speed and reliability of solutions to highly intertwined issues faced in supply chain operations From procurement in Industry 4.0 to sustainable consumption behavior to curriculum development for data scientists this book offers a wide array of techniques and theories of Big Data Analytics applied to Supply Chain Management It offers a comprehensive overview and forms a new synthesis by bringing together seemingly divergent fields of research Intended for Engineering and Business students scholars and professionals this book is a collection of state of the art research and best practices to spur discussion about and extend the cumulant knowledge of emerging supply chain problems

Software Engineering: Emerging Trends and Practices in System Development Radek Silhavy, Petr Silhavy, 2025-10-10 This book discovers peer reviewed research from an international research conference that unites experts in software engineering data science artificial intelligence cybernetics and informatics This book presents cutting edge methods practical case studies and foundational advances that address real world challenges across the computational spectrum Whether you seek rigorous theory proven development practices or visionary perspectives on emerging technologies this book provides a comprehensive resource for researchers practitioners and students committed to shaping the future of digital systems

Cyber Security Intelligence and Analytics Zheng Xu, Saed Alrabaae, Octavio Loyola-González, Xiaolu Zhang, Niken Dwi Wahyu Cahyani, Nurul Hidayah Ab Rahman, 2022-03-22 This book presents the outcomes of the 2022 4th International Conference on Cyber Security Intelligence and Analytics CSIA 2022 an international conference dedicated to promoting novel theoretical and applied research advances in the interdisciplinary field of cyber security particularly focusing on threat intelligence analytics and countering cyber crime The conference provides a forum for presenting and discussing innovative ideas cutting edge research findings and novel techniques methods and applications on all aspects of cyber security intelligence and analytics Due to COVID 19 authors keynote speakers and PC committees will attend the conference online

New Trends in the Use of Artificial Intelligence for the Industry 4.0 Luis Romeral Martinez, Roque A. Osornio-Rios, Miguel Delgado Prieto, 2020-03-25 Industry 4.0 is based on the cyber physical transformation of processes systems and methods applied in the manufacturing sector and on its autonomous and decentralized operation Industry 4.0 reflects that the industrial world is at the beginning of the so called Fourth Industrial Revolution characterized by a massive interconnection of assets and the integration of human operators with the manufacturing environment In this regard data analytics and specifically the artificial intelligence is the vehicular technology towards the next generation of smart factories Chapters in this book cover a diversity of current and new developments in the use of artificial intelligence on the industrial sector seen from the fourth industrial revolution point

of view namely cyber physical applications artificial intelligence technologies and tools Industrial Internet of Things and data analytics This book contains high quality chapters containing original research results and literature review of exceptional merit Thus it is in the aim of the book to contribute to the literature of the topic in this regard and let the readers know current and new trends in the use of artificial intelligence for the Industry 4.0

Big Data Driven Supply Chain Management Nada R. Sanders,2014-05-07 Master a complete five step roadmap for leveraging Big Data and analytics to gain unprecedented competitive advantage from your supply chain Using Big Data pioneers such as Amazon UPS and Wal Mart are gaining unprecedented mastery over their supply chains They are achieving greater visibility into inventory levels order fulfillment rates material and product delivery using predictive data analytics to match supply with demand leveraging new planning strengths to optimize their sales channel strategies optimizing supply chain strategy and competitive priorities even launching powerful new ventures Despite these opportunities many supply chain operations are gaining limited or no value from Big Data In Big Data Driven Supply Chain Management Nada Sanders presents a systematic five step framework for using Big Data in supply chains You ll learn best practices for segmenting and analyzing customers defining competitive priorities for each segment aligning functions behind strategy dissolving organizational boundaries to sense demand and make better decisions and choose the right metrics to support all of this Using these techniques you can overcome the widespread obstacles to making the most of Big Data in your supply chain and earn big profits from the data you re already generating For all executives managers and analysts interested in using Big Data technologies to improve supply chain performance

ICBBEM 2023 Liu Lin,Zhang Kun,Kannimuthu S.,2023-07-24 The 2nd International Conference on Bigdata Blockchain and Economy Management ICBEM 2023 was successfully held on 19-21 May 2023 in Hangzhou China The conference aims to present the latest research results in the areas related to Big Data Blockchain and Economic Management and provide an opportunity for experts and scholars from various fields to meet face to face exchange new ideas and practical experiences establish business or research relationships and seek future international cooperation This volume contains a collection of excellent papers from the conference presented on topics such as computer software and computer applications blockchain in data management e commerce and digital commerce and linear regression analysis We hope that these papers will serve as a reference for young scholars in their future research

Economic and Business Management Xiaoxia Huang,Feng Zhang,2022-03-22 With the rapid development and drastic change of the world economy Digital Finance Internet Finance Science and Technology Finance have become new hotspots which also represent the future trend of economy development in the era of big data Enterprises are facing more uncertainty opportunities coexist with challenges There are more possibilities for economic development and enterprise management to accelerate the integration of cutting edge research results to deepen hot topics discussion and to promote opinion exchanges among academic and business circles The Sixth International Conference on Economic and Business Management FEBM2021 was successfully

held online on October 16 17 2021 and aimed to provide a platform for researchers engineers academics as well as industry professionals from all over the world to present their latest research findings and development activities in economic and business management These proceedings include 51 accepted articles selected from 94 submissions **Frontier**

Computing Jia-Wei Chang,Neil Yen,Jason C. Hung,2022-01-01 This book gathers the proceedings of the 10th International Conference on Frontier Computing held in Singapore on July 10 13 2020 and provides comprehensive coverage of the latest advances and trends in information technology science and engineering It addresses a number of broad themes including communication networks business intelligence and knowledge management web intelligence and related fields that inspire the development of information technology The respective contributions cover a wide range of topics database and data mining networking and communications web and Internet of things embedded systems soft computing social network analysis security and privacy optical communication and ubiquitous pervasive computing Many of the papers outline promising future research directions and the book benefits students researchers and professionals alike Further it offers a useful reference guide for newcomers to the field Logistics, Supply Chain and Financial Predictive Analytics Kusum

Deep,Madhu Jain,Said Salhi,2018-08-06 This book addresses a broad range of problems commonly encountered in the fields of financial analysis logistics and supply chain management such as the use of big data analytics in the banking sector Divided into twenty chapters some of the contemporary topics discussed in the book are co operative non cooperative supply chain models for imperfect quality items with trade credit financing a non dominated sorting water cycle algorithm for the cardinality constrained portfolio problem and determining initial basic and feasible solutions for transportation problems by means of the supply demand reparation method and continuous allocation method In addition the book delves into a comparison study on exponential smoothing and the Arima model for fuel prices optimal policy for Weibull distributed deteriorating items varying with ramp type demand rate and shortages an inventory model with shortages and deterioration for three different demand rates outlier labeling methods for medical data a garbage disposal plant as a validated model of a fault tolerant system and the design of a least cost ration formulation application for cattle a preservation technology model for deteriorating items with advertisement dependent demand and trade credit a time series model for stock price forecasting in India and asset pricing using capital market curves The book offers a valuable asset for all researchers and industry practitioners working in these areas giving them a feel for the latest developments and encouraging them to pursue further research in this direction Logistics 4.0 and Future of Supply Chains İsmail İyigün,Ömer Faruk Görçün,2021-11-14

This book provides a detailed theoretical background of Logistics 4 0 using real world examples and case studies and proposes a methodological framework to understand the technological revolutions happening in the present day from the perspective of logistics management With the fourth industrial revolution new technologies such as artificial intelligence cloud computing 3D printers and the Internet of Things started to take greater prominence in the world of business One of

the sectors most affected by changes brought on by this Industry 4.0 is logistics which has given rise to the concept of Logistics 4.0. Covering a wide range of topics on Logistics 4.0 such as warehousing, big data, 3D printing, robotics, and cloud computing, this book would be a valuable read for those involved in logistics management, academics, and students in the areas of supply chain management, logistics industry 4.0, and big data.

Energy Efficiency in Strategy of Sustainable Production Vol. II Jörg Franke, Sven Kreitlein, 2016-11-10. Selected peer reviewed papers from the 3rd Green Factory Bavaria Colloquium 2016, November 30 - December 1, 2016, Convention Center Nuremberg, Germany.

Supply Chain Strategy, Second Edition: Unleash the Power of Business Integration to Maximize Financial, Service, and Operations Performance Edward H. Frazelle, 2017-11-03. The industry standard in supply chain management, fully revised and updated to provide today's logistics solutions. The proven pillars of success in logistics and supply chain management introduced in the first edition of *Supply Chain Strategy* now guide the supply chains of many of the world's most successful organizations, including 3M, Abbott, BP, Coca-Cola, Disney, Hallmark, Honda, Mitsubishi, Oxxo, FEMSA, Payless, P.G. Pratt, Whitney, Wal-Mart, Rio Tinto, and many others. This Second Edition features up-to-date case studies showing how those companies and more meet supply chain goals and helps you overcome your own challenges with the latest supply chain innovations, including big data analytics, supply chain command and control centers, large-scale supply chain optimization, integrated supply chain planning, real-time global supply chain visibility, omni-channel logistics, re-shoring, global sourcing optimization, cloud-based supply chain management, supply chain finance, global trade management, and fourth-party logistics.

Supply Chain Management in the Big Data Era Chan, Hing Kai, Subramanian, Nachiappan, Abdulrahman, Muhammad Dan-Asabe, 2016-11-04. Technological advancements in recent years have led to significant developments within a variety of business applications. In particular, data-driven research provides ample opportunity for enterprise growth if utilized efficiently. *Supply Chain Management in the Big Data Era* is an authoritative reference source for the latest scholarly material on the implementation of big data analytics for improved operations and supply chain processes. Highlighting emerging strategies from different industry perspectives, this book is ideally designed for managers, professionals, practitioners, and students interested in the most recent research on supply chain innovations.

Key Indicators for Asia and the Pacific, 2016.

Big Data and how It's Impacting the Logistics and Supply Chain Industry Johnny Altamirano-Aragon, 2019.

Big Data Analytics Using Multiple Criteria Decision-Making Models Ramakrishnan Ramanathan, Muthu Mathirajan, A. Ravi Ravindran, 2017-07-12. Multiple Criteria Decision Making (MCDM) is a subfield of Operations Research dealing with decision-making problems. A decision-making problem is characterized by the need to choose one or a few among a number of alternatives. The field of MCDM assumes special importance in this era of Big Data and Business Analytics. In this volume, the focus will be on modelling-based tools for Business Analytics (BA) with exclusive focus on the sub-field of MCDM within the domain of operations research. The book will include an Introduction to Big Data and Business Analytics and challenges and opportunities for developing MCDM models in

the era of Big Data **Supply Chain Strategy** Edward H. Frazelle, 2001-10-16 High Tech and High Touch Logistics Solutions for Supply Chain Challenges In today's fast paced and customer oriented business environment superior supply chain performance is a prerequisite to getting and staying competitive Supply Chain Strategy is based on world class logistics practices in place in successful supply chain organizations the latest academic breakthroughs in logistics system design and the logic of logistics It presents the proven pillars of success in logistics and supply chain management Part of McGraw Hill's Logistics Management Library Supply Chain Strategy is organized according to author Dr Ed Frazelle's breakthrough logistics master planning methodology The methodology leads to metrics process designs system designs and organizational strategies for total supply chain management total logistics management customer response inventory planning and management supply transportation and warehousing Concise yet complete Dr Frazelle's book shows how to develop a comprehensive logistics and supply chain strategy one that will both complement and support a company's strategic objectives and long term success Logisticsthe flow of material information and money between consumers and suppliers has become a key boardroom topic It is the subject of cover features in business publications from Wall Street Journal to BusinessWeek Annual global logistics expenditures exceed 3.5 trillion nearly 20 percent of the world's GDP making logistics perhaps the last frontier for major corporations to significantly increase shareholder and customer value And at the heart of every effort to improve organizational logistics performance Supply chain efficiency Supply Chain Strategy is today's most comprehensive resource for up to the minute thinking and practices on developing supply chain strategies that support a company's overall objectives Covering world class practices and systems taken from the files of Coca Cola Wal Mart General Electric and other companies it covers essential supply chain subjects including Logistics data mining for identifying the root cause of material and information flow problems pinpointing opportunities for process improvements and providing an objective basis for project team decision making Inventory planning and management presenting metrics processes and systems for forecasting demand planning and inventory control yielding lower inventory levels and improved customer service Logistics information systems and Web based logistics helping to substitute information for inventory and work content Transportation and distribution for connecting sourcing locations with customers at the lowest cost by among other things leveraging private and third party transportation systems Logistics organization development including the seven disciplines that link enterprises across the supply chain as well as logistics activities within those enterprises Supply Chain Strategy explains and demonstrates how decision makers can use today's technology to enhance key logistics systems at every point in the supply chain from the time an idea or product is conceived through its delivery to the final user It describes the major steps in developing an effective workable logistics management program one that will reduce operating expenses minimize capital investment and improve overall customer service and satisfaction *Logistics Management*, 2007 **The 9th International Scientific Conference on Advances in Mechanical Engineering (ISCAME)** Tamás Mankovits, Mihály

Csüllög,2024-07-12 Selected peer reviewed full text papers from the 9th International Scientific Conference on Advances in Mechanical Engineering ISCAME Selected peer reviewed full text papers from the 9th International Scientific Conference on Advances in Mechanical Engineering ISCAME November 9 10 2023 Debrecen Hungary **Big Data Analytics in Logistics and Supply Chain Management** Gunasekaran Angappa,2018

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Table of Contents Big Data In Logistics

1. Understanding the eBook Big Data In Logistics
 - The Rise of Digital Reading Big Data In Logistics
 - Advantages of eBooks Over Traditional Books
2. Identifying Big Data In Logistics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Big Data In Logistics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Big Data In Logistics
 - Personalized Recommendations
 - Big Data In Logistics User Reviews and Ratings
 - Big Data In Logistics and Bestseller Lists
5. Accessing Big Data In Logistics Free and Paid eBooks
 - Big Data In Logistics Public Domain eBooks
 - Big Data In Logistics eBook Subscription Services
 - Big Data In Logistics Budget-Friendly Options
6. Navigating Big Data In Logistics eBook Formats

- ePub, PDF, MOBI, and More
 - Big Data In Logistics Compatibility with Devices
 - Big Data In Logistics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Big Data In Logistics
 - Highlighting and Note-Taking Big Data In Logistics
 - Interactive Elements Big Data In Logistics
 8. Staying Engaged with Big Data In Logistics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Big Data In Logistics
 9. Balancing eBooks and Physical Books Big Data In Logistics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Big Data In Logistics
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Big Data In Logistics
 - Setting Reading Goals Big Data In Logistics
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Big Data In Logistics
 - Fact-Checking eBook Content of Big Data In Logistics
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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