Free epub Big data in logistics (2023)

Big Data Analytics in Supply Chain Management Supply Chain Management in the Big Data Era Logistics, Supply Chain and Financial Predictive Analytics Big Data Driven Supply Chain Management Logistics 4.0 and Future of Supply Chains Data Analytics and Artificial Intelligence for Inventory and Supply Chain Management Supply Chain Analytics and Modelling Supply Chain Analytics Computation and Big Data for Transport Pathway of digital transformation in logistics By the Numbers LISS 2014 Proceedings of the Hamburg International Conference of Logistics (HICL)/ Data Science in Maritime and City Logistics Big Data Transportation Systems Big Data Analytics Using Multiple Criteria Decision-Making Models Introduction to Logistics Systems Management Global Business Analytics Models Logistics 4.0. Applications, Trends and Challenges The Digital Transformation of Logistics Data Science for Supply Chain Forecasting Electronic data interchange in logistics Advances in Shipping Data Analysis and Modeling Global Logistics and Supply Chain Management Integration of Information and Optimization Models for Routing in City Logistics Urban Freight Analytics Computation and Big Data for Transport Global Logistics Network Modelling and Policy Management Science, Logistics, and Operations Research Information Technologies, Methods, and Techniques of Supply Chain Management Supply Chain Engineering and Logistics Handbook Logistics 4.0 A Concept for a National Freight Data Program Innovations in Logistics and Supply Chain Management Technologies for Dynamic Economies LISS2019 The Role of Information Technology in Inventory Management Logistics Qualitative Research in Logistics and Supply Chain Management Data Quality Problems in Army Logistics Open Problems in Optimization and Data Analysis The Art of Transportation and Documentation

Big Data Analytics in Supply Chain Management

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

Supply Chain Management in the Big Data Era

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

Logistics, Supply Chain and Financial Predictive Analytics

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

Big Data Driven Supply Chain Management

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

Logistics 4.0 and Future of Supply Chains

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 and big data

Data Analytics and Artificial Intelligence for Inventory and Supply Chain Management

2022-11-08

this book considers new analytics and ai approaches in the areas of inventory control logistics and supply chain management it provides valuable insights for the retailers and managers to improve business operations and make more realistic and better decisions it also offers a number of smartly designed strategies related to inventory control and supply chain management for the optimal ordering and delivery policies the book further uses detailed models and ai computing approaches for demand forecasting to planning optimization and digital execution tracking one of its key features is use of real life examples case studies practical models to ensure adoption of new solutions data analytics and ai lead automation methodologies are included the book can be utilized by retailers and managers to improve business operations and make more accurate and realistic decisions the ai based solution agnostic assessment and strategy will support the companies for better alignment and inventory control and capabilities to create a strategic road map for supply chain and logistics the book is also useful for postgraduate students researchers and corporate executives it addresses novel solutions for inventory to real world supply chain and logistics that retailers practitioners educators and scholars will find useful it provides the theoretical and applicable subject matters for the senior undergraduate and graduate students researchers practitioners and

professionals in the area of artificial intelligent computing and its applications in inventory and supply chain management inventory control and logistics

Supply Chain Analytics and Modelling

2021-04-03

an incredible volume of data is generated at a very high speed within the supply chain and it is necessary to understand use and effectively apply the knowledge learned from analyzing data using intelligent business models however practitioners and students in the field of supply chain management face a number of challenges when dealing with business models and mathematical modelling supply chain analytics and modelling presents a range of business analytics models used within the supply chain to help readers develop knowledge on a variety of topics to overcome common issues supply chain analytics and modelling covers areas including supply chain planning single and multi objective optimization demand forecasting product allocations end to end supply chain simulation vehicle routing and scheduling models learning is supported by case studies of specialist software packages for each example readers will also be provided with a critical view on how supply chain management performance measurement systems have been developed and supported by reliable and accurate data available in the supply chain online resources including lecturer slides are available

Supply Chain Analytics

2020-11-25

supply chain analytics introduces the reader to data analytics and demonstrates the value of their effective use in supply chain management by describing the key supply chain processes through worked examples and the descriptive predictive and prescriptive analytic methods that can be applied to bring about improvements to those processes the book presents a more comprehensive learning experience for the reader than has been offered previously key topics are addressed including optimisation big data data mining and cloud computing the author identifies four core supply chain processes strategy design execution and people to which the analytic techniques explained can be applied to ensure continuous improvement pedagogy to aid learning is incorporated throughout including an opening section for each chapter explaining the learnings designed for the chapter worked examples illustrating how each analytic technique works how it is applied and what to be careful of tables diagrams and

equations to help visualise the concepts and methods covered chapter case studies and end of chapter review questions and assignment tasks providing both management expertise and technical skills which are essential to decision makers in the supply chain this textbook should be essential reading for advanced undergraduate and postgraduate students of supply chain analytics supply chain leadership and supply chain and operations management its practice based and applied approach also makes it valuable for operating supply chain practitioners and those studying for professional qualifications online resources include chapter by chapter powerpoint slides tutorial exercises written assignments and a test bank of exam questions

Computation and Big Data for Transport

2020-02-28

this book gathers the outcomes of the second eccomas cm3 conference series on transport which addressed the main challenges and opportunities that computation and big data represent for transport and mobility in the automotive logistics aeronautics and marine maritime fields through a series of plenary lectures and mini forums with lectures followed by question and answer sessions the conference explored potential solutions and innovations to improve transport and mobility in surface and air applications the book seeks to answer the question of how computational research in transport can provide innovative solutions to green transportation challenges identified in the ambitious horizon 2020 program in particular the respective papers present the state of the art in transport modeling simulation and optimization in the fields of maritime aeronautics automotive and logistics research in addition the content includes two white papers on transport challenges and prospects given its scope the book will be of interest to students researchers engineers and practitioners whose work involves the implementation of intelligent transport systems its software for the optimal use of roads including safety and security traffic and travel data surface and air traffic management and freight logistics

Pathway of digital transformation in logistics

2019-12-17

the research study pathway of digital transformation in logistics deals with today s logistics challenges which are increasing speed and the integration of real time information for data driven services implementing new organizational and leadership structures as well as the need for finding approaches for cooperation with new

actors such as start ups or tech companies therefore the study examines four thematic building blocks central to current developments in logistics technologies including platforms and data driven services as tools and leadership and organization as well as open innovation as enablers the research approach is twofold first we investigate the four topics by means of an online questionnaire answered by 120 international participants second a delphi workshop with 32 logistics experts from industry and lsp reveals further evaluations of success factors and barriers for future developments in logistics the study describes findings how companies move forward on the path of digital transformation towards smart logistics by presenting and discussing best practice concepts and future developments in logistics die forschungsstudie pathway of digital transformation in logistics beschäftigt sich mit aktuellen herausforderungen in der logistik zunehmende geschwindigkeit und die integration von echtzeitdaten für datengetriebene services implementierung neuer organisations und führungsstrukturen sowie die notwendigkeit ansätze für die zusammenarbeit mit neuen akteuren wie start ups oder technologieunternehmen zu finden daher untersucht die studie vier thematische bausteine die für aktuelle entwicklungen in der logistik zentral sind technologien einschließlich plattformen und datengesteuerte services als werkzeuge und führung und organisation sowie open innovation als enabler der forschungsansatz ist zweigeteilt zunächst untersuchen wir die vier themen anhand eines online fragebogens der von 120 internationalen teilnehmenden beantwortet wurde zweitens ergibt ein delphi workshop mit 32 logistikexpert innen aus industrie und logistikdienstleistung weitere erkenntnisse über barrieren und erfolgsfaktoren für zukünftige entwicklungen in der logistik die studie präsentiert ergebnisse wie unternehmen auf dem weg der digitalen transformation zur intelligenten logistik voranschreiten indem sie best practice konzepte und zukünftige entwicklungen in der logistik vorstellt und diskutiert

By the Numbers

2005

the proceedings of the 2014 international conference on logistics informatics and services sciences liss 2014 gather 259 papers on the latest fundamental advances in the state of the art and practice of logistics informatics service operations and service science the books is divided into four main sections focusing on different aspects service management logistics management information management and engineering management it also covers ten special sessions advanced management decision making techniques and application freight transportation and information technology free trade zone ftz and supply chain management innovation in service science comprehensive service international trade and investment of service industries theories and practices trends and strategies supply chain management industrial economy and urban logistics management process optimization

modeling data analysis logistics management iot technology application and digital publishing media the papers in each section describe state of art research works that are often oriented towards real world applications and highlight the benefits of related methods and techniques for developing the emerging field of service science logistics and informatics

LISS 2014

2015-04-20

this book is designed as a popular science book on big data analytics in intelligent transportation systems it aims to provide an introduction to big data transportation starting from an overview on the development of big data transportation in various countries this is followed by a discussion on the blueprint strategies of big data transportation which include innovative models planning transportation logistics and application case studies finally the book discusses applications of big data transportation platforms

Proceedings of the Hamburg International Conference of Logistics (HICL)/ Data Science in Maritime and City Logistics

2020

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

Big Data Transportation Systems

2021-07-02

introduction to logistics systems management the updated new edition of the award winning introductory textbook

on logistics system management introduction to logistics systems management provides an in depth introduction to the methodological aspects of planning organization and control of logistics for organizations in the private public and non profit sectors based on the authors extensive teaching research and industrial consulting experience this classic textbook is used in universities worldwide to teach students the use of quantitative methods for solving complex logistics problems fully updated and revised the third edition places increased emphasis on the complexity and flexibility required by modern logistics systems in this context the extensive use of data descriptive analytics predictive models and optimization techniques will be invaluable to support the decisions and actions of logistics and supply chain managers throughout the book brand new case studies and numerical examples illustrate how various methods can be used in industrial and service logistics to reduce costs and improve service levels the book includes new models and techniques that have emerged over the past decade describes methodologies for logistics decision making forecasting logistics system design procurement warehouse management and freight transportation management includes end of chapter exercises microsoft excel files and python computer codes for each algorithm covered includes access to a companion website with additional exercises links to video tutorials and supplementary teaching material to facilitate creation of course material additional latex source data containing the formulae optimization models tables and algorithms described in the book is available to instructors introduction to logistics systems management third edition remains an essential textbook for senior undergraduate and graduate students in engineering computer science and anagement science courses it is also a highly useful reference for academic researchers and industry practitioners alike

Big Data Analytics Using Multiple Criteria Decision-Making Models

2017-07-12

the complete guide to using analytics to manage risk and uncertainty in complex global business environments practical techniques for developing reliable actionable intelligence and using it to craft strategy analytical opportunities to solve key managerial problems in global enterprises written for working managers packed with realistic useful examples this guide helps global managers use modern analytics to gain reliable actionable and timely business intelligence and use it to manage risk build winning strategies and solve urgent problems dr hokey min offers a practical easy to understand overview of business analytics in a global context focusing especially on managerial and strategic implications after demystifying today s core quantitative tools he demonstrates them at work in a wide spectrum of global applications you ll build models to help segment global markets forecast demand assess risk plan financing optimize supply chains and more along the way you ll find practical guidance for

developing analytic thinking operationalizing big data in global environments and preparing for future analytical innovations whether you re a global executive strategist analyst marketer supply chain professional student or researcher this book will help you drive real value from analytics in smarter decisions improved strategy and better management in today s global business environments characterized by growing complexity volatility and uncertainty business analytics has become an indispensable tool for managing these challenges specifically global managers need analytics expertise to solve problems identify opportunities shape strategy mitigate risk and improve their day to day operational efficiency now for the first time there s an analytics guide designed specifically for decision makers in global organizations leveraging his experience teaching a number of students and training hundreds of managers and executives dr hokey min demystifies the principles and tools of modern business analytics and demonstrates their real world use in global business first dr min identifies key success factors and mindsets helping you establish the preconditions for effective analysis next he walks you through the practicalities of collecting organizing and analyzing big data and developing models to transform them into actionable insight building on these foundations he illustrates core analytical applications in finance healthcare and global supply chains he concludes by previewing emerging trends in analytics including the newest tools for automated decision making compare today s key quantitative tools stats data mining or and simulation how they work when to use them get the right data and get the data right predict the future and sense its arrival sooner than others can

Introduction to Logistics Systems Management

2022-12-19

diploma thesis from the year 2018 in the subject business economics supply production logistics grade 1 university of the aegean language english abstract current logistics operations and information systems used cannot deal with the emerging challenges globalization e commerce cyberthreats cumbersome organizational structures startups disrupting the business landscape and constantly higher customer demands push companies into adopting emerging technologies which enable them to increase digitalization and automation the fourth industrial revolution enables companies to proceed in digitalizing their operations as building a flexible organizational structure is a challenge that needs to be addressed and adopting the digital enterprise model is a crucial step before implementing the new age technologies as companies must add the elements of flexibility and adaptability in order to deal with the challenges at hand logistics 4 0 a term derived from the combination of industry 4 0 technologies and innovations and their application on inbound and outbound logistics is a narrower concept than industry 4 0 as

it focuses on typical features such as automation and digitalization the technologies most commonly utilized are the internet of things big data analytics augmented reality unmanned aerial vehicles and advanced robotics iot is the pinnacle of those technologies as it enables new data streams creation from sources previously being non exploitable and allows companies to monitor and control mechanizations fleets etc by a central system the master thesis presents a framework that companies may follow for a logistics 4 0 technologies implementation the framework presents five necessary phases for the implementation enabling the company to properly deal with the challenges that emerge resistance to change high investment costs hr related issues data privacy issues it infrastructure requirements the public s opinion about revolutionary technologies and regulations are challenges that must be dealt with for the implementation to be smoothly completed the case studies analysis that follows showcase the advantages and benefits of implementing logistics 4 0 technologies finally the outcome of the master thesis is that the framework may be tested in a real world environment for further research on the subject

Global Business Analytics Models

2016-03-05

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

Logistics 4.0. Applications, Trends and Challenges

2019-07-15

using data science in order to solve a problem requires a scientific mindset more than coding skills data science for supply chain forecasting second edition contends that a true scientific method which includes experimentation observation and constant questioning must be applied to supply chains to achieve excellence in demand forecasting this second edition adds more than 45 percent extra content with four new chapters including an introduction to neural networks and the forecast value added framework part i focuses on statistical traditional models part ii on machine learning and the all new part iii discusses demand forecasting process management the various chapters focus on both forecast models and new concepts such as metrics underfitting overfitting outliers feature optimization and external demand drivers the book is replete with do it yourself sections with implementations provided in python and excel for the statistical models to show the readers how to apply these models themselves this hands on book covering the entire range of forecasting from the basics all the way to leading edge models will benefit supply chain practitioners forecasters and analysts looking to go the extra mile with demand forecasting events around the book link to a de gruyter online event in which the author nicolas vandeput together with stefan de kok supply chain innovator and ceo of wahupa spyros makridakis professor at the university of nicosia and director of the institute for the future iff and edouard thieuleux founder of abcsupplychain

discuss the general issues and challenges of demand forecasting and provide insights into best practices process models and discussing how data science and machine learning impact those forecasts the event will be moderated by michael gilliland marketing manager for sas forecasting software youtu be 1rxjxcabw2s

The Digital Transformation of Logistics

2021-03-30

shipping flows maritime footprints remain underexplored in the existing literature despite the crucial importance of freight transport for global trade and economic development additionally decision makers lack a comprehensive view on how shipping flows can be measured analyzed and mapped in order to support their policies and strategies this interdisciplinary volume drawing on an international cast list of experts explores a number of crucial issues in shipping data estimation construction collection mining analysis visualization and mapping advances in shipping data analysis and modeling delivers several key messages first that in a world of just in time delivery and rapid freight transit it is important to bear in mind the long term roots of current trends as well as foreseeable future developments because shipping patterns exhibit recurrent if not cyclical and path dependent dynamics second shipping flows are currently often understood at the micro level of intra urban logistics delivery and at the national level using commodity flow analyses but this volume emphasizes the need to expand the scale of analysis by offering new evidence on the changing distribution of global and international shipping flows based on actual data third that this multidisciplinary approach to shipping flows can shed important light on crucial issues that go beyond shipping itself including climate change urban development technological change commodity specialization digital humanities navigation patterns international trade and regional growth edited by experts in their field this volume is of upmost importance to those who study industrial economics shipping industries and economic and transport geography

Data Science for Supply Chain Forecasting

2021-03-22

think of the many different products and services that are purchased and consumed each day how do they reach the end user what does this cost what happens when something goes wrong logistics and supply chain management scm are the areas of study which help us to explore and answer these questions today they play a

very important role in underpinning the success of many organisations across the public and private sectors and impact how we live our lives while the origins of logistics and scm are firmly embedded in the manufacturing domain the successful applications of logistics and scm principles and practices are becoming increasingly relevant in the services area also see for example the many changes that have recently been driven into healthcare systems and airlines global logistics and supply chain management now in its third edition provides essential reading for anybody studying scm and logistics encompassing both practical and strategic perspectives it takes a truly global perspective recognising the transnational nature of logistics activities in today s world key features of this new and extended third edition include 18 up to date chapters on all aspects of logistics and scm including coverage of emerging and important topics such as security technology and automation in logistics supply chain data flows logistics and the internet of everything sustainability supply chain vulnerability and trade facilitation new chapters include one on management science applications which provides an easy and clear introduction to key quantitative techniques that can be applied to logistics and scm 12 updated case studies including new case studies on air cargo port city logistics automobile manufacturing logistics and logistics infrastructure appraisal

Electronic data interchange in logistics

1992

as urban congestion continues to be an ever increasing problem routing in these settings has become an important area of operations research this monograph provides cutting edge research utilizing the recent advances in technology to quantify the value of dynamic time dependent information for advanced vehicle routing in city logistics the methodology of traffic data collection is enhanced by gps based data collection resulting in a comprehensive number of travel time records data mining is also applied to derive dynamic information models as required by time dependent optimization finally well known approaches of vehicle routing are adapted in order to handle dynamic information models this book interweaves the usually distinct areas of traffic data collection information retrieval and time dependent optimization by an integrated methodological approach which refers to synergies of data mining and operations research techniques by example of city logistics applications these procedures will help improve the reliability of logistics services in congested urban areas

Advances in Shipping Data Analysis and Modeling

2017-11-06

urban freight analytics examines the key concepts associated with the development and application of decision support tools for evaluating and implementing city logistics solutions new analytical methods are required for effectively planning and operating emerging technologies including the internet of things iot information and communication technologies ict and intelligent transport systems its the book provides a comprehensive study of modelling and evaluation approaches to urban freight transport it includes case studies from japan the us europe and australia that illustrate the experiences of cities that have already implemented city logistics including analytical methods that address the complex issues associated with adopting advanced technologies such as autonomous vehicles and drones in urban freight transport also considered are future directions in urban freight analytics including hyperconnected city logistics based on the physical internet pi digital twins gamification and emerging technologies such as connected and autonomous vehicles in urban areas an integrated modelling platform is described that considers multiple stakeholders or agents including emerging organisations such as pi companies and entities such as crowd shippers as well as traditional stakeholders such as shippers receivers carriers administrators and residents this book presents procedures for evaluating city logistics technologies and policy measures provides an overview of advanced modelling approaches including agent based model and machine learning highlights the essential features of optimisation and simulation models applied to city logistics discusses how models incorporating more uncertainty and dynamic data can be used to improve the sustainability and resilience of urban freight systems the book is ideal for graduate students in civil and environmental engineering and logistics management urban planners transport engineers and logistics specialists

Global Logistics and Supply Chain Management

2016-07-18

this book gathers the outcomes of the second eccomas cm3 conference series on transport which addressed the main challenges and opportunities that computation and big data represent for transport and mobility in the automotive logistics aeronautics and marine maritime fields through a series of plenary lectures and mini forums with lectures followed by question and answer sessions the conference explored potential solutions and innovations to improve transport and mobility in surface and air applications the book seeks to answer the question

of how computational research in transport can provide innovative solutions to green transportation challenges identified in the ambitious horizon 2020 program in particular the respective papers present the state of the art in transport modeling simulation and optimization in the fields of maritime aeronautics automotive and logistics research in addition the content includes two white papers on transport challenges and prospects given its scope the book will be of interest to students researchers engineers and practitioners whose work involves the implementation of intelligent transport systems its software for the optimal use of roads including safety and security traffic and travel data surface and air traffic management and freight logistics

Integration of Information and Optimization Models for Routing in City Logistics

2012-05-01

global logistics network modelling and policy provides guidelines on quality policy covering investments management and planning for port and hinterland infrastructure roads railways and inland waterway ports the book first describes the authors concept and formulation models followed by a description and analysis of the applied data as shipping companies fiercely compete in an effort to achieve greater efficiency and impact infrastructure policy and plan for the entire supply chain they need tactics that drive quality transportation policy and new ways to model and simulate worldwide cargo movements all while estimating demand and capacity of systems this book provides quantitative tools for modeling analysis and simulation of worldwide inter modal cargo movement helping forecast the impacts of logistics and related policies in each region of the world it covers useful applications for every region of the world allowing policymakers to tailor results for their own specific uses delivers sophisticated quantitative tools for modeling simulations providing powerful analysis of global intermodal cargo movements features examples of tools applied to logistical policy situations in every region of the world serves as a bridge between theory and practice in the field of freight transportation research provides detailed data supported case studies and real world examples for transportation modelers planners and policymakers

Urban Freight Analytics

2023-09-14

this book examines related research in decision management and other behavioral sciences in order to exchange

and collaborate on information among business industry and government providing innovative theories and practices in operations research provided by publisher

Computation and Big Data for Transport

2020

this book has compiled chapters from experts from around the world in the field of supply chain management and provides a vital compendium of the latest research case studies frameworks methodologies architectures and best practices within the field of supply chain management provided by publisher

Global Logistics Network Modelling and Policy

2020-09-08

this handbook begins with the history of supply chain sc engineering it goes on to explain how the sc is connected today and rounds out with future trends the overall merit of the book is that it introduces a framework similar to sundial that allows an organization to determine where their company may fall on the sc technology scale the book will describe those who are using more historic technologies companies that are using current collaboration tools for connecting their sc to other global scs and the scs that are moving more towards cutting edge technologies this book will be a handbook for practitioners a teaching resource for academics and a guide for military contractors some figures in the ebook will be in color presents a decision model for choosing the best supply chain engineering sce strategies for service and manufacturing operations with respect to industrial engineering and operations research techniques offers an economic comparison model for evaluating sce strategies for manufacturing outsourcing as opposed to keeping operations in house demonstrates how to integrate automation techniques such as rfid into planning and distribution operations provides case studies of sc inventory reductions using automation from ait and rfid research covers planning and scheduling as well as transportation and sc theory and problems

Management Science, Logistics, and Operations Research

2013-09-30

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

Information Technologies, Methods, and Techniques of Supply Chain Management

2012-04-30

calls upon the department of transportation and its bureau of transportation statistics to take the lead in coordinating freight data collection in the us this work focuses on increasing the linkages between sources of data and filling data gaps to develop a source of timely and reliable data on freight flows a national framework is needed

Supply Chain Engineering and Logistics Handbook

2019-11-12

this book disseminates supply chain management and applied logistic theories technology development innovation and transformation in various economy sectors upon current advancing technological opportunities and market imperatives provided by publisher

Logistics 4.0

2020-12-17

this book focuses on ai and data driven technical and management innovations in logistics informatics and services the respective papers analyze in detail the latest fundamental advances in the state of the art and practice of logistics informatics service operations and service science the book gathers the outcomes of the 9th international conference on logistics informatics and service sciences which was held at the university of maryland usa

A Concept for a National Freight Data Program

2003

project report from the year 2014 in the subject business economics business management corporate governance grade 3 3 language english abstract this study investigates the impact and role of information technology on inventory management supply chain management scm addresses the handling of information and material across the entire chain that includes the producers to suppliers retailers distributors and customers by increasing focus on use of rapid and advance technologies in enhancement of supply chain management the businesses are seeking to developed and organized material handling system for its use the purpose of this study is to examine the effectiveness and role of developed technology in handling of material this will be a descriptive type of research this study will also document the relationship of inventory management on supply chain management the questionnaire will be used to gather the data the kse list firms will be used as sample of the study the advance econometric techniques will be implemented for analysis of data the results of study will help in efficient management of inventory of firm

Innovations in Logistics and Supply Chain Management Technologies for Dynamic Economies

2012-03-31

this ebook on qualitative research in supply chain management and logistics is of course about qualitative methods but it is more than that it is also about doing research that is qualitative in its essence qualitative research is not just about using for example interview data in a study it is also about how one perceives qualitative data the theoretical lens through which one conducts analyses and the data analysis processes

LISS2019

2020-07-10

there is a widespread agreement that the data in army logistics information systems have severe quality problems this study develops a classification scheme for data quality problems and applies it to several problem logistics data elements primarily the end item code eic a key data element in the central demand data base

The Role of Information Technology in Inventory Management

2017-12-18

computational and theoretical open problems in optimization computational geometry data science logistics statistics supply chain modeling and data analysis are examined in this book each contribution provides the fundamentals needed to fully comprehend the impact of individual problems current theoretical algorithmic and practical methods used to circumvent each problem are provided to stimulate a new effort towards innovative and efficient solutions aimed towards graduate students and researchers in mathematics optimization operations research quantitative logistics data analysis and statistics this book provides a broad comprehensive approach to understanding the significance of specific challenging or open problems within each discipline the contributions contained in this book are based on lectures focused on challenges and open problems in optimization and data science presented at the deucalion summer institute for advanced studies in optimization mathematics and data

science in august 2016

Logistics

1966

in the art of transportation and documentation readers embark on an enlightening journey through the intricate world of logistics management this comprehensive guide delves into the core principles strategies and technologies driving the seamless movement of goods across the global marketplace from the outset the book elucidates the diverse modes of transportation that form the backbone of modern logistics each mode be it road rail air or sea is meticulously examined highlighting its unique benefits and limitations in the context of supply chain operations readers gain invaluable insights into the decision making process involved in selecting the most suitable transportation mode considering factors such as cost speed reliability and geographical constraints a special focus is placed on multimodal transportation where goods traverse multiple modes of transport seamlessly through detailed explanations and illustrative examples readers discover how multimodal solutions offer enhanced flexibility efficiency and cost effectiveness in today s dynamic logistics landscape containerization emerges as a key concept revolutionizing the way goods are transported and stored the book elucidates the principles and benefits of containerization from standardized packaging to improved security and reduced handling costs moreover readers learn about the intricacies of managing transportation costs and networks leveraging tools such as icegate for efficient customs clearance and optimizing gst return filing processes but logistics management extends beyond transportation alone it encompasses the efficient flow of information the book explores the concept of information logistics emphasizing the importance of robust information systems in driving informed decision making and optimizing supply chain performance from sales and purchasing information systems to inventory control and quality management readers gain a comprehensive understanding of how information flows seamlessly through the logistics ecosystem enabling timely and accurate decision making furthermore the book delves into emerging technologies such as vehicular communication systems and gross register tonnage grt and net register tonnage nrt calculations offering insights into their applications and benefits in modern logistics operations with practical insights expert guidance and real world examples the art of transportation and documentation equips readers with the knowledge and tools needed to navigate the complexities of logistics management successfully whether you re a seasoned professional or a novice in the field this book is your indispensable companion on the journey to mastering the art of logistics in the global marketplace

Qualitative Research in Logistics and Supply Chain Management

2014-05-27

Data Quality Problems in Army Logistics

1996

Open Problems in Optimization and Data Analysis

2018-12-04

The Art of Transportation and Documentation

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