

Fleet Management And Logistics 1st Edition

This volume of three books presents recent advances in modelling, planning and evaluating city logistics for sustainable and liveable cities based on the application of ICT (Information and Communication Technology) and ITS (Intelligent Transport Systems). It highlights modelling the behaviour of stakeholders who are involved in city logistics as well as planning and managing policy measures of city logistics including cooperative freight transport systems in public-private partnerships. Case studies of implementing and evaluating city logistics measures in terms of economic, social and environmental benefits from major cities around the world are also given.

Our rapidly changing world has forced business practitioners, in corporation with academic researchers, to respond quickly and develop effective solution methodologies and techniques to handle new challenges in supply chain systems. Supply Chain Optimization, Management and Integration: Emerging Applications presents readers with a rich collection of ideas from researchers who are bridging the gap between the latest in information technology and supply chain management. This book includes theoretical, analytical, and empirical research, comprehensive reviews of relevant research, and case studies of effective applications in the field of SCM. The use of new technologies, methods, and techniques are emphasized by those who have worked with supply chain management across the world for those in the field of information systems.

This book gathers papers presented at the Logistik-Management-Konferenz 2013, which was organized by the VHB Wissenschaftliche Kommission Logistik and held in Bremen, Germany. The papers reflect the current state-of-the-art in logistics and supply chain management, focusing on environmental sustainability in logistics and supply chain network dynamics and control. The target audience primarily consists of researchers and practitioners in the field, but the book may also be beneficial for graduate students.

Effective logistics play a critical role in disaster preparation and response, but how can those working in this field deliver in environments which are often dangerous and unstable? Humanitarian Logistics provides thought-provoking guidance and discussion of the core issues facing practitioners involved in managing the logistics of disaster relief. With insights from academics and practitioners who have worked in these situations, this multi-contributed book offers suggestions for best practice and international perspectives on the nature of the humanitarian logistics challenge. Now in its third edition, Humanitarian Logistics is fully updated and contains new chapters on providing support for complex emergencies, waste management and reverse logistics, the application of value stream analysis and the potential of new technologies such as 3D printing, cash transfer programmes and drones. With a particular focus on pre-disaster preparation and inter-agency cooperation, this book is essential reading for anyone who needs to understand how to respond effectively during a disaster or crisis.

This remarkable volume highlights the importance of Production and Operations Management (POM) as a field of study and research contributing to substantial business and social growth. The editors emphasize how POM works with a range of systems—agriculture, disaster management, e-commerce, healthcare, hospitality, military systems, not-for-profit, retail, sports, sustainability, telecommunications, and transport—and how it contributes to the growth of each. Martin K. Starr and Sushil K. Gupta gather an international team of experts to provide researchers and students with a panoramic vision of the field. Divided into eight parts, the book presents the history of POM, and establishes the foundation upon which POM has been built while also revisiting and revitalizing topics that have long been essential. It examines the significance of processes and projects to the fundamental growth of the POM field. Critical emerging themes and new research are examined

with open minds and this is followed by opportunities to interface with other business functions. Finally, the next era is discussed in ways that combine practical skill with philosophy in its analysis of POM, including traditional and nontraditional applications, before concluding with the editors' thoughts on the future of the discipline. Students of POM will find this a comprehensive, definitive resource on the state of the discipline and its future directions.

This book constitutes the proceedings of the 20th IFIP WG 8.5 International Conference on Electronic Government, EGOV 2021, held in Granada, Spain, in September 2021, in conjunction with the IFIP WG 8.5 IFIP International Conference on Electronic Participation (ePart 2021) and the International Conference for E-Democracy and Open Government Conference (CeDEM 2021). The 23 full papers presented were carefully reviewed and selected from 63 submissions. The papers are clustered under the following topical sections: digital transformation; digital services and open government; open data: social and technical perspectives; smart cities; and data analytics, decision making, and artificial intelligence. Chapters "Perceived and Actual Lock-in Effects Amongst Swedish Public Sector Organisations when Using a SaaS Solution" and "Ronda: Real-time Data Provision, Processing and Publication for Open Data" are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

This book brings together research in humanitarian operations, behavioral operations and dynamic simulation. Part I outlines the main characteristics and strategic challenges of humanitarian organizations in preparedness, knowledge management, climate change and issues related to refugees and social inclusion. Part II gives an introduction to behavioral operations and experiments in single- and multi-agent settings, followed by discussions on quantal theory, framing effect and possible applications in the humanitarian sector. Part III introduces system dynamics and agent-based modeling and discusses how these techniques can be used to study dynamics and decision-making in humanitarian operations. This book is unique in providing a holistic view of the decision-making process and challenges in the humanitarian sector.

The second edition of Multi-Objective Management in Freight Logistics builds upon the first, providing a detailed study of freight transportation systems, with a specific focus on multi-objective modelling. It offers decision-makers methods and tools for implementing multi-objective optimisation models in logistics. The second edition also includes brand-new chapters on green supply chain and hybrid fleet management problems. After presenting the general framework and multi-objective optimization, the book analyses green logistic focusing on two main aspects: green corridors and network design; next, it studies logistic issues in a maritime terminal and route planning in the context of hazardous material transportation. Finally, heterogeneous fleets distribution and coordination models are discussed. The book presents problems providing the mathematics, algorithms, implementations, and the related experiments for each problem. It offers a valuable resource for postgraduate students and researchers in transportation, logistics and operations, as well as practitioners working in service systems.

Evaluating the role of logistics and supply chain management skills or applications is necessary for the success of any organization or business. As market competition becomes more aggressive, it is crucial to evaluate ways in which a business can maintain a strategic edge over competitors. The Handbook of Research on Information Management for Effective Logistics and Supply Chains highlights strategies, tools, and skills necessary for supply management within organizations and companies.

Featuring best practices and empirical research within the field, this handbook is a critical reference source for scholars, practitioners, researchers, information systems and telecommunication specialists, and managers.

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Through a structured literature review and an exploratory factor analysis, this thesis presents a conceptual framework with 6 key factors composed of 19 indicators, including government, consumer, company, product, operation and partnership, which affecting the development of e-logistics in cross-border relation. Then, a comprehensive competitive strategy is generated based on the framework, including government policy, logistics strategy selection, differentiated product, dual-channel inventory and transport. Finally, Walmart and JD.com in China market are chosen as case study, the development of their cross-border e-logistics strategy verify the rationality and applicability of the framework found in this thesis. Durch eine strukturierte Literaturrecherche und eine explorative Faktorenanalyse, stellt diese Arbeit einen konzeptionellen Framework mit 6 Schlüsselfaktoren auf, die sich 19 Indikatoren zusammensetzen, die sich auf die Entwicklung der E-Logistik in Cross-Border-Beziehungen auswirken, darunter Regierung, Verbraucher, Unternehmen, Produkt, Betrieb und Partnerschaft. Anschließend wird eine umfassende Wettbewerbsstrategie auf der Grundlage des Frameworks erstellt, einschließlich der Regierungspolitik, der Auswahl der Logistikstrategie, des differenzierten Produkts, des Dual-Channel-Bestands und des Transports. Schließlich werden Walmart und JD.com im chinesischen Markt als Fallstudie ausgewählt, die Entwicklung ihrer Cross-Border-E-Logistik-Strategie aufgezeigt und Anwendbarkeit des Frameworks demonstriert.

This book provides a comprehensive overview of how to strategically manage the movement and storage of products or materials from any point in the manufacturing process to customer fulfillment. Topics covered include important tools for strategic decision making, transport, packaging, warehousing, retailing, customer services and future trends. An introduction to logistics Provides practical applications Discusses trends and new strategies in major parts of the logistic industry

Micha Hirschinger emphasizes the importance of foresight on logistics and institutions in particular for effective decision making as distinct research in this context is limited. He applies a systematic and transferable multi-method approach based on Delphi studies and fuzzy c-means cluster analysis to develop profound scenarios for the future. He uses the relevance of information-processing requirements to investigate whether centralization of purchasing organizations increases functional efficiency. The author finally shows how a sharing-economy business model transfer could help to overcome the limited access to factor markets, especially trucks, at the base of the pyramid. Disaster management is a process or strategy that is implemented when any type of catastrophic event takes place. The process may be initiated when anything threatens to disrupt normal operations or puts the lives of human beings at risk. Governments on all levels as well as many businesses create some sort of disaster plan that make it possible to overcome the catastrophe and return to normal function as quickly as possible. Response to natural disasters (e.g., floods, earthquakes) or technological disaster (e.g., nuclear, chemical) is an extreme complex process that involves severe time pressure, various uncertainties, high non-linearity and many stakeholders. Disaster management often requires several autonomous agencies to collaboratively mitigate, prepare, respond, and recover from heterogeneous and dynamic sets of hazards to society. Almost all disasters involve high degrees of novelty to deal with most unexpected various uncertainties and dynamic

time pressures. Existing studies and approaches within disaster management have mainly been focused on some specific type of disasters with certain agency oriented. There is a lack of a general framework to deal with similarities and synergies among different disasters by taking their specific features into account. This book provides with various decisions analysis theories and support tools in complex systems in general and in disaster management in particular. The book is also generated during a long-term preparation of a European project proposal among most leading experts in the areas related to the book title. Chapters are evaluated based on quality and originality in theory and methodology, application oriented, relevance to the title of the book.

Practical, easy-to-implement advice on the most successful logistics management techniques being used today--from selecting the best carriers, setting logistics performance goals, and planning logistics strategies, to streamlining shipping and receiving and slashing logistics costs, and negotiating and managing third party logistics service providers.

Optimization Models for Rail Car Fleet Management represents the result of multi-year efforts to provide readers with insights into one of the most important areas of railway transport management. The book covers mathematical procedures for the effective and efficient utilization of railway freight cars, developed models for optimization methods, heterogeneity and partial substitutability of freight cars, research and development in rail freight car fleet management models, and the stochastic and dynamic nature of the supply, demand and traveling time of freight cars, among other topics. Summarizes the authors past research efforts in the field of rail freight car fleet management Presents various approaches that include the application of a variety of optimization techniques Contains centralized, decentralized, distributed perspectives considered under the assumption of deterministic, stochastic, fuzzy and fuzzy stochastic parameters

The Routledge Handbook of Transportation offers a current and comprehensive survey of transportation planning and engineering research. It provides a step-by-step introduction to research related to traffic engineering and control, transportation planning, and performance measurement and evaluation of transportation alternatives. The Handbook of Transportation demonstrates models and methods for predicting travel and freight demand, planning future transportation networks, and developing traffic control systems. Readers will learn how to use various engineering concepts and approaches to make future transportation safer, more efficient, and more sustainable. Edited by Dušan Teodorović and featuring 29 chapters from more than 50 leading global experts, with more than 200 illustrations, the Routledge Handbook of Transportation is designed as an invaluable resource for professionals and students in transportation planning and engineering. The official magazine of United States Army logistics.

The aim of this project is to provide a solution to the fleet sizing for the company Panopa Logistics Poland. It is achieved by doing an analysis and simulation of the activities that take part in the transportation process of products between the Panopa's warehouse and the Volkswagen's production line. With a representative sample of the commands served and its time schedule, it is possible to obtain the regressions for generating a random duration for all the activities in the process. With this, and taking into account the actual operation of the company, the research provides the solution with the minimum necessary fleet size for the correct running of the process. The model and the simulations are done with the ExtendSim V6 software, which allows creating models of a simplest reality, in this case as a discrete event. From this analysis the necessary size of the fleet is determined. A sensibility analysis is finally done in order to determinate the intervals in between the variables of the process should be to guarantee the correct motion of the process with the number of vehicles chosen from the first study.

TEODOR GABRIEL CRAINIC, DIRECTOR The Centre for Research on Transportation (C.R.T.) was founded in 1971 by the Universite de Montreal. From 1988 on, it is jointly managed by the Universite de Montreal and its affiliated schools, the Ecole des Hautes Etudes Commerciales and Ecole Poly technique. Professors, students and researchers from many institutions in the Montreal area join forces at the C.R.T. to analyze transportation, logistics and telecommunication systems from a multidisciplinary perspective. The C.R.T. pursues three major, complementary objectives: training of high-level specialists; the advancement of knowledge and technology; the transfer of technology towards industry and the public sector. Its main field of expertise is the development of quantitative and computer-based models and methods for the analysis of urban, regional and intercity transportation networks, as well as telecommunication systems. This applies to the study of passenger and commodity flows, as well as to the socioeconomic aspects of transportation: policy, regulation, economics. The twenty-fifth anniversary of the C.R.T. offered the opportunity to evaluate past accomplishments and to identify future trends and challenges. Five colloquia were thus organized on major research and application themes that also reflected our main research areas. They gathered together internationally renowned researchers who linked recent scientific and technological advances to modeling and methodological challenges waiting to be tackled, particularly concerning new problems and applications, and the increasingly widespread use of new technologies.

This book focuses on real time management of distribution systems, integrating the latest results in system design, algorithm development and system implementation to capture the state-of-the art research and application trends. The book important topics such as goods dispatching, couriers, rescue and repair services, taxi cab services, and more. The book includes real-life case studies that describe the solution to actual distribution problems by combining systemic and algorithmic approaches.

Memetic algorithms are evolutionary algorithms that apply a local search process to refine solutions to hard problems. Memetic algorithms are the subject of intense scientific research and have been successfully applied to a multitude of real-world problems ranging from the construction of optimal university exam timetables, to the prediction of protein structures and the optimal design of space-craft trajectories. This monograph presents a rich state-of-the-art gallery of works on memetic algorithms. Recent Advances in Memetic Algorithms is the first book that focuses on this technology as the central topical matter. This book gives a coherent, integrated view on both good practice examples and new trends including a concise and self-contained introduction to memetic algorithms. It is a necessary read for postgraduate students and researchers interested in recent advances in search and optimization technologies based on memetic algorithms, but can also be used as complement to undergraduate textbooks on artificial intelligence.

This edited volume highlights recent research advances in humanitarian relief logistics. The contributed chapters span the spectrum of key issues and activities from preparedness to mitigation operations (response), planning and execution. The volume also presents state-of-the-art methods and systems through current case studies. Significant issues in planning and execution of humanitarian relief logistics discussed in this volume include the following: • Approaches that tackle realistic relief distribution

networks. In addition to large-scale computing issues, heuristics may handle the complexity and particularities of humanitarian supply chains • Methods that integrate real-time information while effectively coping with time pressure and uncertainty, both of which are inherent to a disaster scene • Judicious recourse strategies that allow a quick and effective restoration of pre-planned solutions whenever an unpredictable event occurs • Coordination of multiple parties that are often involved in managing a disaster, including NGOs, local, state and federal agencies. This volume provides robust evidence that research in humanitarian logistics may lead to substantial improvements in effectiveness and efficiency of disaster relief operations. This is quite encouraging, since the unique characteristics of disaster scenes provide significant opportunities for researchers to investigate novel approaches contributing to logistics research while offering a significant service to society.

This book contains eleven chapters describing some of the most recent methodological operations research developments in transportation. It is structured around the main transportation modes, and each chapter is written by a group of well-recognized researchers. Because of the major impact of operations research methods in the field of air transportation over the past forty years, it is befitting to open the book with a chapter on airline operations management. This book will prove useful to researchers, students, and practitioners in transportation and will stimulate further research in this rich and fascinating area. Volume 14 examines transport and its relationship with operations and management science 11 chapters cover the most recent research developments in transportation Focuses on main transportation modes-air travel, automobile, public transit, maritime transport, and more

This book deals with transportation processes denoted as the Real-time Distribution of Perishable Goods (RDOPG). The book presents three contributions that are made to the field of transportation. First, a model considering the minimization of customer inconvenience is formulated. Second, a pro-active real-time control approach is proposed. Stochastic knowledge is generated from past request information by a new forecasting approach and is used in the pro-active approach to guide vehicles to request-likely areas before real requests arrive there. Various computational results are presented to show that in many cases the pro-active approach is able to achieve significantly improved results. Moreover, a measure for determining the structural quality of request data sets is also proposed. The third contribution of this book is a method that is presented for considering driver inconvenience aspects which arise from vehicle en-route diversion activities. Specifically, this method makes it possible to restrict the number of performed vehicle en-route diversion activities.?

The purpose of WNIS 2009, the 2009 International Conference on Wireless Networks and Information Systems, is to bring together researchers, engineers and practitioners interested on information systems and applications in the context of wireless networks and mobile technologies. Information systems and information technology are pervasive in the whole communications field, which is quite vast, encompassing a large number of research topics and applications: from practical issues to the more abstract theoretical aspects of communication; from low level protocols to high-level networking and applications; from wireless networking technologies to mobile information systems; many other topics are included in the scope of WNIS 2009. The WNIS 2009 will be held in Shanghai, China, in December 2009. We cordially invite you to attend the 2009 International Conference on Wireless Networks and Information Systems. We are soliciting papers that present recent results, as well as more speculative presentations that discuss research challenges, define new applications, and propose

methodologies for evaluating and the road map for achieving the vision of wireless networks and mobile technologies. The WNIS 2009 is co-sponsored by the Institute of Electrical and Electronics Engineers, the IEEE Shanghai Section, the Intelligent Information Technology Application Research Association, Hong Kong and Wuhan Institute of Technology, China. The purpose of the WNIS 2009 is to bring together researchers and practitioners from academia, industry, and government to exchange their research ideas and results and to discuss the state of the art in the areas of the symposium.

The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

Freight transport and logistics operations have become so technically sophisticated that a whole language of generic terms, jargon, abbreviations and management buzzwords, to say nothing of legal terms and definitions, has been generated. The aim of this dictionary is to identify these terms and, in unambiguous English, provide accurate descriptions and definitions. The volume is endorsed by the Institute of Logistics and Transport, and covers both UK and EU terms.

Imagine planning an event like the Olympics. Now imagine planning the same event but not knowing when or where it will take place, or how many will attend. This is what humanitarian logisticians are up against. Oversights result in serious consequences for the victims of disasters. So they have to get it right, fast.

Vehicle routing problems, among the most studied in combinatorial optimization, arise in many practical contexts (freight distribution and collection, transportation, garbage collection, newspaper delivery, etc.). Operations researchers have made significant developments in the algorithms for their solution, and *Vehicle Routing: Problems, Methods, and Applications, Second Edition* reflects these advances. The text of the new edition is either completely new or significantly revised and provides extensive and complete state-of-the-art coverage of vehicle routing by those who have done most of the innovative research in the area; it emphasizes methodology related to specific classes of vehicle routing problems and, since vehicle routing is used as a benchmark for all new solution techniques, contains a complete overview of current solutions to combinatorial optimization problems. It also includes several chapters on important and emerging applications, such as disaster relief and green vehicle routing.

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