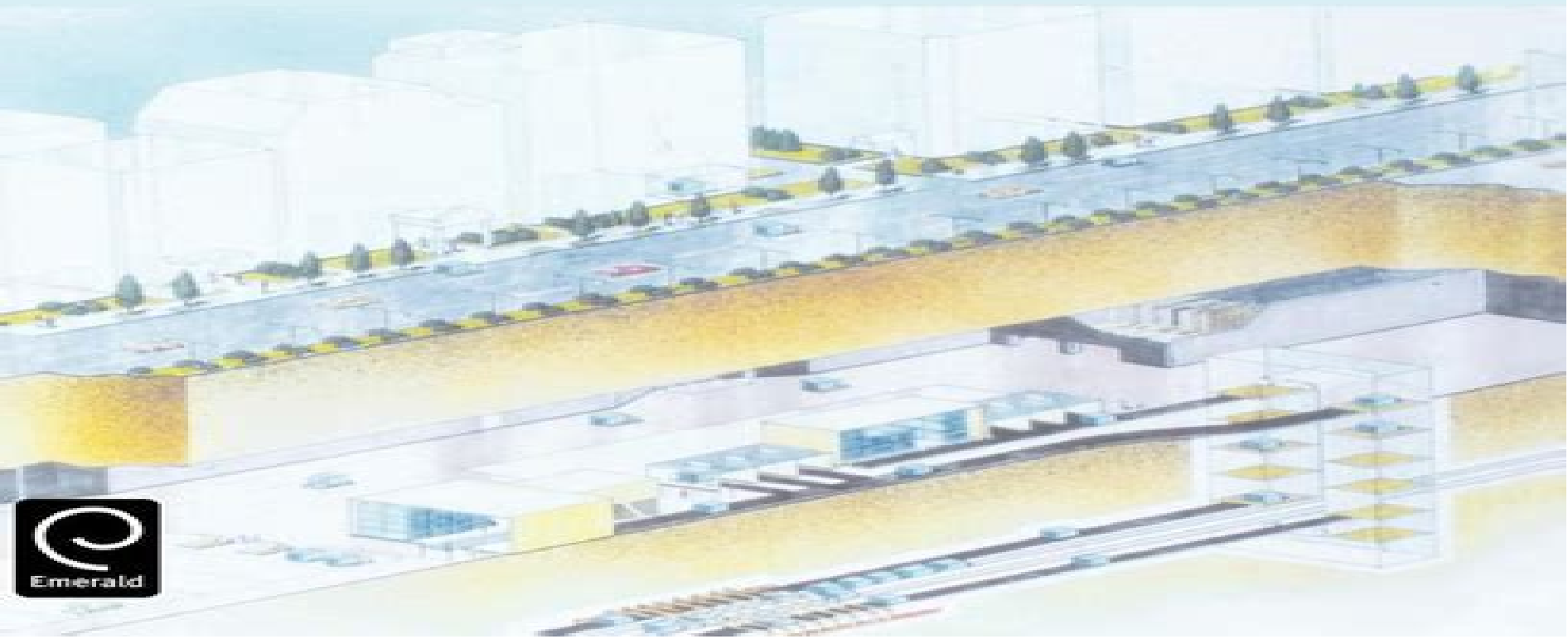


CITY LOGISTICS

NETWORK MODELLING AND
INTELLIGENT TRANSPORT SYSTEMS

**Eiichi Taniguchi, Russell G Thompson,
Tadashi Yamada, Ron van Duin**



City Logistics Network Modelling And Intelligent Transport Systems

**Wilhelm Dangelmaier,Alexander
Blecken,Robin Delius,Stefan Klöpfer**



City Logistics Network Modelling And Intelligent Transport Systems:

City Logistics Eiichi Taniguchi, 2001-01 This book presents fundamental concepts and general approaches to City Logistics City Logistics is the process of totally optimising urban logistics activities by considering the social environmental economic financial and energy impacts of urban freight movement City Logistics initiatives are required to solve urban freight transport problems including high levels of traffic congestion negative environmental impacts high energy consumption and a shortage of labour The focus of this work is on modelling City Logistics Modelling is of crucial importance since estimates of the impacts generated by City Logistics measures are required for evaluating them It highlights the formulation of mathematical models of vehicle routing and scheduling with Intelligent Transport Systems ITS optimal terminal locations and impact estimation by City Logistics measures Heuristics techniques such as genetic algorithms simulated annealing and tabu search are also given to identify approximate optimal solution of these combinatorial optimisation problems ITS provides powerful tools for efficiently managing and operating vehicle fleets Sophisticated logistics systems can now be developed by integrating Global Positioning Systems GPS and Geographical Information Systems GIS in conjunction with application software In this context the book presents a theoretical and practical treatment of modelling City Logistics based on ITS

City Logistics 2 Eiichi Taniguchi, Russell G. Thompson, 2018-05-24 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

City Logistics Eiichi Taniguchi, Russell G. Thompson, 2014-11-21 City Logistics Mapping The Future examines the key concepts of city logistics along with the associated implementation issues methodologies and policy measures Chronicling the growth of city logistics as a discipline and how planning and policy have improved practice over the last ten years it details the technologies policies and plans that can reduce traffic congestion environmental impact and the cost of logistics activities in urban freight transportation systems The book provides a comprehensive study of the modelling planning and evaluation of urban freight transport It includes case studies from the US UK Netherlands Japan South Africa and Australia that illustrate the experiences of cities that have already implemented city logistics including the methods used to solve the complex issues relating to urban freight transport Presents procedures for evaluating city logistics policy measures Provides an overview of intelligent transport systems in city logistics Highlights the essential features of joint delivery systems and off hour delivery programs Supplies an overview of access restrictions and regulations related to city logistics in urban areas Expert contributors from major cities around the world discuss regional developments share

success stories and personal experiences and highlight emerging trends in urban logistics Coverage includes mathematical modeling public policy planning and implementation logistics in urban planning designs and urban distribution centers The book examines the impact of recent advancements in technology on city logistics including information and communication technologies intelligent transport systems and GPS It also considers future directions in city logistics including humanitarian logistics alternative transport modes in co modality last kilometer deliveries partnerships between public and private sectors alternative fuel vehicles and emerging technologies such as 3D printing

Handbook on City Logistics and Urban Freight Edoardo Marcucci, Valerio Gatta, Michela Le Pira, 2023-06-01 Providing an up to date and comprehensive overview of city logistics and urban freight research this Handbook offers multidisciplinary insights on the key theories themes and pressing issues common to urban and metropolitan landscapes

City Logistics 1 Eiichi Taniguchi, Russell G. Thompson, 2018-07-24 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

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City Logistics: Modelling, planning and evaluation Eiichi Taniguchi, 2017-10-02 This volume on city logistics presents recent advances of modelling urban freight transport as well as planning and evaluating city logistics policy measures in the academic research areas and practices The contributions of eleven chapters have come from eight countries including Japan UK The Netherlands Italy France Singapore Indonesia and Brazil As city logistics aims at creating efficient and environmental friendly urban freight transport systems these chapters deal with challenging urban freight transport problems from various point of views of the usage of ITS Intelligent Transport Systems multi agent modelling public private partnerships and the disaster consideration This book was published as a special issue of the International Journal of Urban Sciences

Integration of Information and Optimization Models for Routing in City Logistics Jan Ehmke, 2012-05-01 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

Innovations in City Logistics Eiichi Taniguchi, 2008 This book highlights recent developments and advances in city logistics City logistics is a relatively new area of urban study and urban management The goal of city logistics is to establish efficient safe and environmentally friendly urban freight transport systems using advanced information communication technology This book covers modelling planning and evaluating city logistics measures including co operative freight transport systems consolidated city distribution centres advanced vehicle routing and scheduling using intelligent transport systems load factor controls road pricing intelligent parking controls pickup points for e commerce Modelling and analysing the Planning and efficient management of city logistics schemes is essential because there are multiple stakeholders who are involved in urban freight transport issues Therefore public private partnerships and other management methodology will be discussed As well the book contains several case studies of urban freight transport policies which have been already implanted in some cities in Europe United States and the Asia Pacific region

Transport Systems and Urban Logistics Grzegorz Sierpiński, Sebastian Naumann, Elżbieta Macioszek, 2024-12-26 This book contains an abundance of numerical analyses based on significant data sets illustrating the close affiliation between mobility and quality of life What types of solutions can transform an urban zone into a Smart City What parameters are important in the problem of optimizing supply strategies especially at last mile stage How to use multi criteria analysis when selecting parking locations How to examine the condition of infrastructure and what impact it may have on delays in tram traffic How to combine activities related to the suburbanization process with the integration of tariffs in public transport This book provides you with answers to these and many other questions With regard to the research results discussed and the selected solutions applied the book primarily addresses the needs of three target groups Scientists and researchers ITS field Local authorities responsible for the transport systems at the urban and regional level Representatives of business traffic strategy management and industry manufacturers of ITS components This book gathers selected papers presented at the 20th Transport Systems Theory and Practice Scientific and Technical Conference organised by the Department of Transport Systems Traffic Engineering and Logistics at the Faculty of Transport and Aviation Engineering of the Silesian University of Technology The conference was held on 10 11 September 2024 in Katowice Poland

Network Design And Optimization For Smart Cities Panos M Pardalos, Konstantinos Gakis, 2017-05-03 This comprehensive reference text is a collection of important research findings on the latest developments in network modeling for optimization of smart cities. Such models can be used from outlining the fundamental concepts of urban development to the description and optimization of physical networks such as power, water, or telecommunications. Networks help us understand city economics and various aspects of human interactions within cities with particular applications in quality of life and the flow of people and goods. Finally, the natural environment and even the climate of cities can be modeled and managed as networks.

Handbook of Research on Urban and Humanitarian Logistics Gonzalez-Feliu, Jesus, Chong, Mario, Vargas Florez, Jorge, Padilla Solis, Julio, 2019-06-28 City logistics is one of the most popular fields of transportation sciences dealing with sustainably supplying cities and at the same time reducing congestion and pollution related to goods transport in urban areas. Recently, humanitarian emergency and crises logistics has been a subject of increasing interest often seen from an international viewpoint. However, some of the recent natural crises have shown the importance of resilience and reliability of the current urban logistics systems. The Handbook of Research on Urban and Humanitarian Logistics is a critical scholarly publication that addresses urban logistics and resilience, sustainable urban logistics, humanitarian logistics in urban areas both for crisis or long term and planning for resilient urban development. Featuring a broad range of topics that discuss the new and future trends in urban logistics and resilient cities, this publication is ideal for public planners, urban planners, company managers in logistics and transport, consulting agencies, regional, national, and international institutions, and organizations, researchers, academicians, and students.

The Routledge Handbook of Urban Logistics Jason Monios, Lucy Budd, Stephen Ison, 2023-06-23 The Routledge Handbook of Urban Logistics offers a state-of-the-art comprehensive overview of the discipline of urban and city logistics. The COVID-19 pandemic and the rise in internet shopping, in particular, have placed new demands on urban logistics which require innovative technological and policy responses. Similarly, the necessity for sustainable urban logistics offers both a challenge and opportunity for development and seeks to address traffic congestion, local air quality, traffic-related degradation, the use of energy, safety aspects, and noise. Featuring contributions from world-leading international scholars, the chapters examine concepts, issues, and ideas across five topic areas that reflect the increasingly diverse nature of current research and thinking in urban logistics: transport modes, urban logistics sectors, technical analysis, policy, and sustainability. Each chapter provides an overview of current knowledge, identifies issues, and discusses the relevant debates in urban logistics and the future research agenda. This handbook offers a single repository on the current state of knowledge, written from a practical perspective, utilising theory that is applied and developed using real work examples. It is an essential reference for researchers, academics, and students working in all areas of urban logistics, from policy and planning to technology and sustainability, in addition to industry practitioners looking to develop their professional knowledge.

Sustainable Urban Logistics: Concepts, Methods and Information Systems Jesus

Gonzalez-Feliu, Frédéric Semet, Jean-Louis Routhier, 2013-09-07 Since the 1990 s researchers practitioners and public administrations have given more thought to urban logistics However their interests and goals are not the same and several approaches do not produce efficient logistics systems as a result This book aims to provide both a conceptual framework for urban logistics planning and management and to create a basis for deploying solutions that aim to reduce the main nuisances related to urban goods The proposed book is divided in two parts The first proposes a set of methodological chapters written by key authors which aim to support decision makers in their current choices related to urban logistics In addition to public authorities aims and goals the book highlights the importance of private actors and shows how supply chain management can deal with the problems of the last urban mile and its integration in global logistics chains The second presents several applied research works that deal with current planning and practice issues in urban logistics such as the role of city planning the place of night deliveries in carrier organization the limits of logistics pooling and the real estate market among others The book was written by key authors all having considerable research experience and recognised as experts in their respective fields Each chapter presents methods and results of research works written for a broad audience and more precisely directed to both academics and practitioners

Handbook of Research on Military, Aeronautical, and Maritime Logistics and Operations Ochoa-Zezzatti, Alberto, Sánchez, Jöns, Cedillo-Campos, Miguel Gastón, de Lourdes, Margain, 2016-02-02 Effective logistics management has played a vital role in delivering products and services and driving research into finding ever improving theoretical and technological solutions While often thought of in terms of the business world logistics and operations management strategies can also be effectively applied within the military aeronautical and maritime sectors The Handbook of Research on Military Aeronautical and Maritime Logistics and Operations compiles interdisciplinary research on diverse issues related to logistics from an inclusive range of methodological perspectives This publication focuses on original contributions in the form of theoretical experimental research and case studies on logistics strategies and operations management with an emphasis on military aeronautical and maritime environments Academics and professionals operating in business environments government institutions and military research will find this publication beneficial to their research and professional endeavors

Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (4th Edition) Mohamed Ksibi, Arturo Sousa, Olfa Hentati, Haroun Chenchouni, José Lopes Velho, Abdelazim Negm, Jesús Rodrigo-Comino, Riheb Hadji, Sudip Chakraborty, Achraf Ghorbal, 2024-07-17 This edited book includes more than four hundred short papers that were presented during the fourth edition of EMCEI which was held in Sousse Tunisia in November 2022 By presenting a wide range of environmental topics and new findings relevant to a variety of problems in the Mediterranean region and its surroundings the book addresses emerging environmental issues along with new challenges by focusing on innovative approaches that contribute to achieving a sustainable environment in these regions The book appeals to anyone working in the subject area and especially students

interested in learning more about new developments in environmental research initiatives in light of the worsening environmental degradation of the Mediterranean and surrounding areas making environmental and resource protection an increasingly important issue that impedes sustainable development and social well being The book addresses emerging environmental issues along with new challenges by focusing on innovative approaches that contribute to achieving a sustainable environment in and around the Mediterranean Sea and by highlighting to decision makers from relevant sectors the environmental considerations that should be integrated into their own activities **Advanced Manufacturing and Sustainable Logistics** Wilhelm Dangelmaier, Alexander Blecken, Robin Delius, Stefan Klöpfer, 2010-04-12

In times of declining economic growth companies have to control their costs more than ever to save resources needed in the future Regardless of the economic size of the company the processes of production and logistics play a decisive role in stabilizing procedures and avoiding waste Both are important cost drivers in manufacturing companies and therefore they offer large potential savings Pervasive networking in the last years has contributed to a hitherto unknown transparency of global markets This harmonization opened up new possibilities of entering foreign markets for procurement and sales to the companies The emerging global procurement strategy was understood as a chance to rethink the relocation of existing production facilities to profit from existing differences in price and performance as a resource saving factor Many companies tended towards a reduction of their vertical integration by outsourcing sections of their value chain These contracted services of production result in higher transport volumes increased complexity of supply processes and new requirements on logistic networks This trend of outsourcing has not stopped but is slowing down noticeably Additionally there is an increasing proportion of companies restoring business units that were outsourced before Reasons for turning back decisions are often to be found in missed goals It is not unusual that important cost factors were disregarded in the original basis of decision making In the meantime many companies have realized that it is easier to achieve stability of processes and therewith a control of costs by increasing their own contribution to production Especially in times of under utilized capacities like in the current crisis insourcing can be a strategic option Approximate Dynamic Programming for Dynamic Vehicle Routing Marlin Wolf Ulmer, 2017-04-19 This book provides a straightforward overview for every researcher interested in stochastic dynamic vehicle routing problems SDVRPs The book is written for both the applied researcher looking for suitable solution approaches for particular problems as well as for the theoretical researcher looking for effective and efficient methods of stochastic dynamic optimization and approximate dynamic programming ADP To this end the book contains two parts In the first part the general methodology required for modeling and approaching SDVRPs is presented It presents adapted and new general anticipatory methods of ADP tailored to the needs of dynamic vehicle routing Since stochastic dynamic optimization is often complex and may not always be intuitive on first glance the author accompanies the ADP methodology with illustrative examples from the field of SDVRPs The second part of this book then depicts the application of

the theory to a specific SDVRP The process starts from the real world application The author describes a SDVRP with stochastic customer requests often addressed in the literature and then shows in detail how this problem can be modeled as a Markov decision process and presents several anticipatory solution approaches based on ADP In an extensive computational study he shows the advantages of the presented approaches compared to conventional heuristics To allow deep insights in the functionality of ADP he presents a comprehensive analysis of the ADP approaches

Engineering Tools and Solutions for Sustainable Transportation Planning Knoflacher, Hermann,Ocalir-Akunal, Ebru V.,2017-02-14

While modern cities continue to grow and become more efficient in many sectors as their population increases public transportation has not yet caught up As a significant industry in contemporary society further progress in transportation systems is more vital than ever Engineering Tools and Solutions for Sustainable Transportation Planning is an informative reference source that outlines why current transportation systems have become inefficient in modern societies and offers solutions for the improvement of transportation infrastructures Highlighting key topics such as parking organization car ownership energy consumption and highway performance this is a detailed resource for all practitioners academics graduate students and researchers that are interested in studying the latest trends and developments in the transportation sector

Handbook on Transport and Urban Planning in the Developed World Michiel C.J. Bliemer,Corinne Mulley,Claudine J. Moutou,2016-02-26 This Handbook provides comprehensive coverage of all of the major factors that underpin our understanding of urban and transport planning in the developed world Combining urban and transport planning in one volume the chapters present the state of the art as well as new research and directions for the future The contributions from leading international academics at the forefront of their fields consider transport and urban planning from a number of different perspectives including historical policy and strategy dimensions appraisal and financing of options planning and design of urban areas and the management of transport and urban systems Examples and practical guides from the developed world are included along with a detailed discussion of the emerging issues The Handbook provides an essential reference to all of the key points on the topic as well as signalling areas of concern and future research paths Academics researchers students policymakers and practitioners will find it a constant source of information and guidance

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