

Hub Location Problems

Chapter 12

July 20, 2009

Fuad Ashwash

Hub Location Problems Chapter 12

**Francisco Saldanha-da-Gama, Shuming
Wang**



Hub Location Problems Chapter 12:

Facility Location Zvi Drezner, Horst W. Hamacher, 2004-05-03 The book covers both theory and applications of locational analysis. The reader will see the power of LocAn models in various real world contexts varying from communication design to robotics and mail delivery. It is divided into two parts. The first part contains an overview of some of the LocAn methodologies. The second part describes in thorough detail some selected applications. The text provides researchers with an excellent and well thought out review of available location models. *Foundations of Location Analysis* H. A. Eiselt, Vladimir Marianov, 2011-01-13 Location analysis has matured from an area of theoretical inquiry that was designed to explain observed phenomena to a vibrant field which can be and has been used to locate items as diverse as landfills, fast food outlets, gas stations as well as politicians and products in issue and feature spaces. Modern location science is dealt with by a diverse group of researchers and practitioners in geography, economics, operations research, industrial engineering and computer science. Given the tremendous advances location science has seen from its humble beginnings it is time to look back. The contributions in this volume were written by eminent experts in the field each surveying the original contributions that created the field and then providing an up to date review of the latest contributions. Specific areas that are covered in this volume include: The three main fields of inquiry: minisum and minimax problems and covering models. Nonstandard location models including those with competitive components, models that locate undesirable facilities, models with probabilistic features and problems that allow interactions between facilities. Descriptions and detailed examinations of exact techniques including the famed Weiszfeld method and heuristic methods ranging from Lagrangean techniques to Greedy algorithms. A look at the spheres of influence that the facilities generate and that attract customers to them, a topic crucial in planning retail facilities. The theory of central places which other than in mathematical games where location science was born.

Facility Location Under Uncertainty Francisco Saldanha-da-Gama, Shuming Wang, 2024-06-03 This textbook provides researchers, post graduate students and practitioners with a systematic framework for coping with uncertainty when making facility location decisions. In addition to in depth coverage of models and solution techniques, application areas are discussed. The book guides readers through the field showing how to successfully analyze new problems and handle new applications. Initially the focus is on base models and concepts. Then gradually more comprehensive models and more involved solution algorithms are discussed. Throughout the book two perspectives are intertwined: the paradigm for capturing uncertainty and the facility location problem at hand. The former includes stochastic programming, robust optimization, chance constrained programming and distributional robust optimization; the latter includes classical facility location problems and those arising in many real world applications such as hub location, location routing and location inventory. *Location Science* Gilbert Laporte, Stefan Nickel, Francisco Saldanha da Gama, 2020-03-16 This book presents essential information on modern location science in a word all you need to know about location. The second edition of this handbook has been fully revised throughout.

with numerous updates and chapters added to offer an even more comprehensive overview of methods and applications The book is divided into three parts basic concepts advanced concepts and applications Written by the most respected specialists in the field and thoroughly reviewed by the editors it first lays out the fundamental problems in location science and provides readers with basic background information on location theory Part II covers advanced models and concepts broadening and expanding on the content presented in Part I It also discusses important tools to help readers grasp and solve real world location problems Part III focuses on the links between location science and other areas like GIS telecommunications healthcare rapid transit networks districting problems and disaster events and presents a wide range of applications to allow readers to understand the role of facility location in such areas and learn how to handle real world location problems The book is intended for researchers working on theory and applications involving location problems and models It is also suitable as a textbook for graduate courses on facility location

Facility Location Reza Zanjirani Farahani,Masoud

Hekmatfar,2009-07-09 Location problems establish a set of facilities resources to minimize the cost of satisfying a set of demands customers with respect to a set of constraints This book deals with location problems It considers the relationship between location problems and other areas such as supply chains

Fundamentals of Supply Chain Theory Lawrence V.

Snyder,Zuo-Jun Max Shen,2019-07-11 Comprehensively teaches the fundamentals of supply chain theory This book presents the methodology and foundations of supply chain management and also demonstrates how recent developments build upon classic models The authors focus on strategic tactical and operational aspects of supply chain management and cover a broad range of topics from forecasting inventory management and facility location to transportation process flexibility and auctions Key mathematical models for optimizing the design operation and evaluation of supply chains are presented as well as models currently emerging from the research frontier Fundamentals of Supply Chain Theory Second Edition contains new chapters on transportation traveling salesman and vehicle routing problems integrated supply chain models and applications of supply chain theory New sections have also been added throughout on topics including machine learning models for forecasting conic optimization for facility location a multi supplier model for supply uncertainty and a game theoretic analysis of auctions The second edition also contains case studies for each chapter that illustrate the real world implementation of the models presented This edition also contains nearly 200 new homework problems over 60 new worked examples and over 140 new illustrative figures Plentiful teaching supplements are available including an Instructor s Manual and PowerPoint slides as well as MATLAB programming assignments that require students to code algorithms in an effort to provide a deeper understanding of the material Ideal as a textbook for upper undergraduate and graduate level courses in supply chain management in engineering and business schools Fundamentals of Supply Chain Theory Second Edition will also appeal to anyone interested in quantitative approaches for studying supply chains

Smart and Sustainable Collaborative Networks

4.0 Luis M. Camarinha-Matos,Xavier Boucher,Hamideh Afsarmanesh,2021-11-15 This book constitutes the refereed

proceedings of the 22nd IFIP WG 5.5 Working Conference on Virtual Enterprises PRO-VE 2021 held in Saint-tienne and virtually in November 2021. The 70 papers (15 full and 55 short) presented with 5 industrial workshop papers were carefully reviewed and selected from 189 submissions. They provide a comprehensive overview of major challenges and recent advances in various domains related to the digital transformation and collaborative networks and their applications with a strong focus on the following areas related to the main theme of the conference: sustainable collaborative networks; sustainability via digitalization; analysis and assessment of business ecosystems; human factors in collaboration; 4.0 maintenance and life cycle management; policies and new digital services; safety and collaboration management; simulation and optimization; complex collaborative systems and ontologies; value co-creation in digitally enabled ecosystems; digitalization strategy in collaborative enterprises; networks, pathways and tools for DIHs; socio-technical perspectives on smart product service systems; knowledge transfer and accelerated innovation in FoF; interoperability of IoT and CPS for industrial CNs; sentient immersive response network; digital tools and applications for collaborative healthcare; collaborative networks and open innovation in education; 4.0 collaborative learning networks with industry and academia; and industrial workshop.

Bioinspired Heuristics for Optimization El-Ghazali Talbi, Amir Nakib, 2018-08-18. This book presents recent research on bioinspired heuristics for optimization. Learning-based and black-box optimization exhibit some properties of intrinsic parallelization and can be used for various optimization problems. Featuring the most relevant work presented at the 6th International Conference on Metaheuristics and Nature Inspired Computing held at Marrakech, Morocco, from 27th to 31st October 2016, the book presents solutions, methods, algorithms, case studies, and software. It is a valuable resource for research, academics, and industrial practitioners.

Using Decision Support Systems for Transportation Planning Efficiency Ocalir-Akunal, Ebru V., 2015-08-12. The integration of technology into the transport planning sector has allowed for more stable yet increasingly complex models that enable better analysis techniques and new approaches to decision making. These modern advances ensure higher productivity in addressing various planning problems. *Using Decision Support Systems for Transportation Planning Efficiency* is a valuable reference source of the latest scholarly research on the vast improvements that computational innovations have made for transportation planners. Featuring extensive coverage on a range of topics relating to spatial planning, environmental risks of transport, and traffic information systems, this publication is a pivotal reference source for transportation planners, professionals, and academicians seeking expert information on a multitude of transportation issues. This publication features timely chapters relevant to the area of transport planning, including artificial neural network models, logistics hubs, urban growth and expansion, accessibility modeling, sustainable mobility, hazardous materials transport, and urban intersections.

Contemporary Issues in Systems Science and Engineering Mengchu Zhou, Han-Xiong Li, Margot Weijnen, 2015-04-20. Various systems science and engineering disciplines are covered, and challenging new research issues in these disciplines are revealed. They will be extremely valuable for the

readers to search for some new research directions and problems Chapters are contributed by world renowned systems engineers Chapters include discussions and conclusions Readers can grasp each event holistically without having professional expertise in the field

Operation, Planning, and Analysis of Energy Storage Systems in Smart Energy Hubs Behnam Mohammadi-Ivatloo, Farkhondeh Jabari, 2018-04-04 This book discusses the design and scheduling of residential industrial and commercial energy hubs and their integration into energy storage technologies and renewable energy sources Each chapter provides theoretical background and application examples for specific power systems including solar wind geothermal air and hydro Case studies are included to provide engineers researchers and students with the most modern technical and intelligent approaches to solving power and energy integration problems with special attention given to the environmental and economic aspects of energy storage systems

Freight Transport and Distribution Tolga Bektas, 2017-06-19 This book serves as a primer on freight transportation and logistics providing a general and broad coverage of concepts mathematical models and methodologies available for freight transportation planning at strategic tactical and operational levels It is aimed at graduate students and is also a reference book for practitioners in the field The book includes preliminaries such as mathematical modeling and optimisation algorithms The book also features case studies and practical real life examples to illustrate applications of the concepts and models covered and to encourage a hands on and a practical approach The author has taught and published extensively in the field and draw on state of the art scientific research He has also been part of a number of practical research projects which underpin the real life examples in the book

International Education Hubs Jane Knight, 2013-09-11 Education hubs are the newest development in the international higher education landscape Countries zones and cities are trying to position themselves as reputed centres for higher education and research But given higher education s current preoccupation with competitiveness branding and economic benefits are education hubs merely a fad a branding exercise or are they an important innovation worthy of serious investment and attention This book tries to answer the question through a systematic and comparative analysis of the rationales actors policies plans and accomplishments for six serious country level education hubs United Arab Emirates Qatar Malaysia Hong Kong Singapore and Botswana The in depth case studies shows that one size does not fit all A variety of factors drive countries to prepare and position themselves as an education hub They include income generation soft power modernization of domestic tertiary education sector economic competitiveness need for trained work force and most importantly a desire to move towards a knowledge or service based economy In response to these different motivations three different types of education hubs are being developed the student hub talent hub and knowledge innovation hub Scholars policy makers professionals students and senior decision makers from education economics geography public policy trade migration will find that this book challenges some assumptions about crossborder education and provides new insights and information

Computational Intelligence in Logistics and Supply Chain Management Thomas Hanne, Rolf

Dornberger,2016-07-27 This book deals with complex problems in the fields of logistics and supply chain management and discusses advanced methods especially from the field of computational intelligence CI for solving them The first two chapters provide general introductions to logistics and supply chain management on the one hand and to computational intelligence on the other hand The subsequent chapters cover specific fields in logistics and supply chain management work out the most relevant problems found in those fields and discuss approaches for solving them Chapter 3 discusses problems in the field of production and inventory management Chapter 4 considers planning activities on a finer level of granularity which is usually denoted as scheduling In chapter 5 problems in transportation planning such as different types of vehicle routing problems are considered While chapters 3 to 5 rather discuss planning problems which appear on an operative level chapter 6 discusses the strategic problem of designing a supply chain or network The final chapter provides an overview of academic and commercial software and information systems for the discussed applications There appears to be a gap between general textbooks on logistics and supply chain management and more specialized literature dealing with methods for computational intelligence operations research etc for solving the complex operational problems in these fields For readers it is often difficult to proceed from introductory texts on logistics and supply chain management to the sophisticated literature which deals with the usage of advanced methods This book fills this gap by providing state of the art descriptions of the corresponding problems and suitable methods for solving them

High-Rise Buildings Jerry Tracy,Jack Murphy,James

Murtagh,2023-05-04 Authors Jerry Tracy Jack J Murphy and James J Murtagh invite fire chiefs fire officers firefighters fire protection engineers building management and the greater fire community to explore High Rise Buildings Understanding the Vertical Challenges as a foundation for coordination and control of high rise building operations Features Learn about cognitive command from many invaluable high rise fire case histories Manage and respond to all hazards events within the high rise environment for generations to come A guideline and reference for fire professionals building owners and system engineers the building construction community property managers What others are saying High Rise Buildings Understanding the Vertical Challenges is literally a bible for high rise buildings protection from fire and the challenges they present to firefighters Paul Grimwood Kent UK Fire and Rescue Service Ph D Principal Fire Protection Engineer High Rise Buildings Understanding the Vertical Challenges fills an important void in high rise firefighting and is an important asset to fire officers Glenn P Corbett Fire Engineering Magazine Technical Editor

Managerial Economics Nick

Wilkinson,2005-05-05 Managerial economics meaning the application of economic methods in the managerial decision making process is a fundamental part of any business or management course This textbook covers all the main aspects of managerial economics the theory of the firm demand theory and estimation production and cost theory and estimation market structure and pricing game theory investment analysis and government policy It includes numerous and extensive case studies as well as review questions and problem solving sections at the end of each chapter Nick Wilkinson adopts a

user friendly problem solving approach which takes the reader in gradual steps from simple problems through increasingly difficult material to complex case studies providing an understanding of how the relevant principles can be applied to real life situations involving managerial decision making This book will be invaluable to business and economics students at both undergraduate and graduate levels who have a basic training in calculus and quantitative methods **Beyond Silicon**

Valley: Thriving Tech Hubs Around the Globe Ahmed Musa,2025-01-02 Silicon Valley may be the most famous tech hub but there are many other regions around the world where innovation and entrepreneurship are flourishing This book highlights emerging tech hubs in cities like Bangalore Berlin and Toronto exploring what makes them unique and how they support startups Discover the diverse ecosystems resources and talent pools that make these cities ideal for tech entrepreneurs Whether you re looking to start a company or relocate for career opportunities this book offers a global perspective on where the next wave of innovation is happening

Metaheuristics Karl F. Doerner,Michel Gendreau,Peter Greistorfer,Walter Gutjahr,Richard F. Hartl,Marc Reimann,2007-08-13 The aim of Metaheuristics Progress in Complex Systems Optimization is to provide several different kinds of information a delineation of general metaheuristics methods a number of state of the art articles from a variety of well known classical application areas as well as an outlook to modern computational methods in promising new areas Therefore this book may equally serve as a textbook in graduate courses for students as a reference book for people interested in engineering or social sciences and as a collection of new and promising avenues for researchers working in this field Highlighted are recent developments in the areas of Simulated Annealing Path Relinking Scatter Search Tabu Search Variable Neighborhood Search Hyper heuristics Constraint Programming Iterated Local Search GRASP bio inspired algorithms like Genetic Algorithms Memetic Algorithms Ant Colony Optimization or Swarm Intelligence and several other paradigms *Advances in Industrial Engineering and Operations Research* Alan H.S.

Chan,2008-03-03 This volume contains contributions from prominent researchers who participated in the 2007 IAENG International Conference on Operations Research It presents theories and applications of modern industrial engineering and operations research to meet the needs of rapidly developing fields The book reflects the tremendous advances in communication systems and electrical engineering and also serves as an excellent reference work for researchers and graduate students Uncertainty in Facility Location Problems H. A. Eiselt,Vladimir Marianov,2023-09-20 This book deals

with an often neglected feature of location problems namely uncertainty by combining two related fields location theory and optimization Written by leading researchers and practitioners in these fields each chapter examines one aspect of the location process in different contexts such as supply chains location decisions under congestion disaster management design of resilient facilities uncertainty in the health sector and facility location in the retail sector under uncertainty The book also addresses methodological aspects such as chance constrained approaches heuristic algorithms scenario approaches and simulation As such it provides decision makers with essential methods tools and approaches to help them deal with these

uncertainties It is mainly intended for graduate students in the fields of operations research and logistics as well as professionals in logistics and supply chain management

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