

Hub Location Problems

Chapter 12

July 20, 2009

Fuad Ashwash

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JR Anderson



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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 Zvi Drezner, Horst W. Hamacher, 2004-05-03 The book covers both theory and applications of locational analysis LocAn 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

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 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 **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 *Algorithmic Aspects of Cloud Computing* Dan Alistarh, Alex Delis, George Pallis, 2018-01-28 This book constitutes the thoroughly refereed post conference proceedings of

the Second International Workshop on Algorithmic Aspects of Cloud Computing ALGO CLOUD 2017 held in Vienna Austria in September 2017 The 9 revised full papers were carefully reviewed and selected from 27 submissions The aim of the workshop is to present research activities and results on topics related to algorithmic design and development aspects of modern cloud based systems

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 optimizations 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

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

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