

ARC ROUTING

*Problems, Methods,
and Applications*



Edited by
Ángel Corberán
Gilbert Laporte

MOS-SIAM Series on Optimization

Arc Routing Problems Methods And Applications

Michael O. Ball



Arc Routing Problems Methods And Applications:

Arc Routing Angel Corberan, Gilbert Laporte, 2014-12-01 This book provides a thorough and up to date discussion of arc routing by world renowned researchers Organized by problem type the book offers a rigorous treatment of complexity issues models algorithms and applications Arc Routing Problems Methods and Applications opens with a historical perspective of the field and is followed by three sections that cover complexity and the Chinese Postman and the Rural Postman problems the Capacitated Arc Routing Problem and routing problems with min max and profit maximization objectives and important applications including meter reading snow removal and waste collection

Arc Routing Moshe Dror, 2000-08-31 Arc Routing Theory Solutions and Applications is about arc traversal and the wide variety of arc routing problems which has had its foundations in the modern graph theory work of Leonhard Euler Arc routing methods and computation has become a fundamental optimization concept in operations research and has numerous applications in transportation telecommunications manufacturing the Internet and many other areas of modern life The book draws from a variety of sources including the traveling salesman problem TSP and graph theory which are used and studied by operations research engineers computer scientists and mathematicians In the last ten years or so there has been extensive coverage of arc routing problems in the research literature especially from a graph theory perspective however the field has not had the benefit of a uniform systematic treatment With this book there is now a single volume that focuses on state of the art exposition of arc routing problems that explores its graph theoretical foundations and that presents a number of solution methodologies in a variety of application settings Moshe Dror has succeeded in working with an elite group of ARC routing scholars to develop the highest quality treatment of the current state of the art in arc routing

Handbook of Artificial Intelligence and Data Sciences for Routing Problems Carlos A.S. Oliveira, Miltiades P. Pardalos, 2025-03-13 This handbook delves into the rapidly evolving field of artificial intelligence and optimization focusing on the intersection of machine learning combinatorial optimization and real world applications in transportation and network design Covering an array of topics from classical optimization problems such as the Traveling Salesman Problem and the Knapsack Problem to modern techniques including advanced heuristic methods Generative Adversarial Networks and Variational Autoencoders this book provides a roadmap for solving complex problems The included case studies showcase practical implementations of algorithms in predicting route sequences traffic management and eco friendly transportation This comprehensive guide is essential for researchers practitioners and students interested in AI and optimization Whether you are a researcher seeking standard approaches or a professional looking for practical solutions to industry challenges this book offers valuable insights into modern AI algorithms

Routledge Handbook of Transportation Dusan Teodorovic, 2015-08-20 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 Du an Teodorovi 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 Experimental Algorithms Paola Festa,2010-05-07 This volume constitutes the refereed proceedings of the 9th International Symposium on Experimental Algorithms SEA 2010 held on Ischia Island Naples Italy in May 2010 The 40 revised full papers presented together with two invited papers were carefully reviewed and selected from 73 submissions The topics covered include algorithm engineering algorithmic libraries algorithmic mechanism design analysis of algorithms algorithms for memory hierarchies approximation techniques bioinformatics branch and bound algorithms combinatorial and irregular problems combinatorial structures and graphs communication networks complex networks computational geometry computational learning theory computational optimization computer systems cryptography and security data streams data structures distributed and parallel algorithms evaluation of algorithms for realistic environments experimental techniques and statistics graph drawing heuristics for combinatorial optimization **Intelligent Computing Theories and Application** De-Shuang Huang,Kang-Hyun Jo,2016-07-11 This two volume set LNCS 9771 and LNCS 9772 constitutes in conjunction with the volume LNAI 9773 the refereed proceedings of the 12th International Conference on Intelligent Computing ICIC 2016 held in Lanzhou China in August 2016 The 221 full papers and 15 short papers of the three proceedings volumes were carefully reviewed and selected from 639 submissions The papers are organized in topical sections such as signal processing and image processing information security knowledge discovery and data mining systems biology and intelligent computing in computational biology intelligent computing in scheduling information security advances in swarm intelligence algorithms and applications machine learning and data analysis for medical and engineering applications evolutionary computation and learning independent component analysis compressed sensing sparse coding social computing neural networks nature inspired computing and optimization genetic algorithms signal processing pattern recognition biometrics recognition image processing information security virtual reality and human computer interaction healthcare informatics theory and methods artificial bee colony algorithms differential evolution memetic algorithms swarm intelligence and optimization soft computing protein structure and function prediction advances in swarm intelligence algorithms and applications optimization neural network and signal processing biomedical informatics and image processing machine learning knowledge discovery and natural language processing nature inspired computing and optimization intelligent control and automation intelligent data analysis and prediction computer vision knowledge representation and expert system bioinformatics Advances in Swarm

Intelligence Ying Tan, Hideyuki Takagi, Yuhui Shi, Ben Niu, 2017-07-18 The two volume set of LNCS 10385 and 10386 constitutes the proceedings of the 8th International Conference on Advances in Swarm Intelligence ICSI 2017 held in Fukuoka Japan in July August 2017 The total of 133 papers presented in these volumes was carefully reviewed and selected from 267 submissions The paper were organized in topical sections as follows Part I theories and models of swarm intelligence novel swarm based optimization algorithms particle swarm optimization applications of particle swarm optimization ant colony optimization artificial bee colony algorithms genetic algorithms differential evolution fireworks algorithm brain storm optimization algorithm cuckoo search and firefly algorithm Part II multi objective optimization portfolio optimization community detection multi agent systems and swarm robotics hybrid optimization algorithms and applications fuzzy and swarm approach clustering and forecast classification and detection planning and routing problems dialog system applications robotic control and other applications

Open Problems in Optimization and Data Analysis Panos M. Pardalos, Athanasios Migdalas, 2018-12-04 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

Application of Heuristics and Metaheuristics to the Capacitated Arc Routing Problem Carlos Ernesto Guillemot Gascón, 2010 The purpose of this thesis is to study arc routing problems and design metaheuristic methods in order to provide high quality solutions to existing problems focusing on the Capacitated Arc Routing Problem The first part of the thesis will contain a literature study on vehicle routing problems and the existing methodology used to solve them In the practical part first a simple greedy algorithm is going to be used to get some starting results Afterwards the objective will be designing and implementing heuristics and metaheuristics in search of the better solutions The results are going to be analysed and compared between them and also with other methods that already exist in the literature

Industrial Engineering, Computation and Information Technologies Prasad Yarlagadda, 2014-12-05 Selected peer reviewed papers from the 2014 2nd International Conference on Mechatronics and Information Technology ICMIT 2014 October 18 19 2014 Chongqing China

Optimization in Transportation Martine Labbé, 2006

Vehicle Routing Paolo Toth, Daniele Vigo, 2014-12-05 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

Network Routing Michael O. Ball,1995-10-30 The papers in this volume consider a general area of study known as network routing The underlying problems are conceptually simple yet mathematically complex and challenging How can we best route material or people from one place to another Or how can we best design a system for instance locate facilities to provide services and goods as efficiently and equitably as possible The problems encountered in answering these questions often have an underlying combinatorial structure for example either we dispatch a vehicle or we do not or we use one particular route or another The problems also typically have an underlying network structure a communication or transportation network In addition models for these problems are often very large with hundreds or thousands of constraints and variables A companion volume in the Handbook series entitled Network Models treats basic network models such as minimum cost flows matching and the travelling salesman problem as well as several complex network topics not directly related to routing such as network design and network reliability

Arc Routing : Problems, Applications and Algorithms Horst A. Eiselt,Michel Gendreau,Gilbert Laporte,Centre for Research on Transportation (Montréal, Québec),1992

Introduction to Logistics Systems Planning and Control Gianpaolo Ghiani,Gilbert Laporte,Roberto Musmanno,2004-01-26 Publisher Description

An Integrated Systems Approach to the Development of Winter Maintenance ,2006 Winter road maintenance operations require many complex strategic and operational planning decisions The five primary problems involved in this intricate planning procedure include locating depots designing sectors routing service vehicles scheduling vehicles and configuring the vehicle fleet The complexity involved in each of these decisions has resulted mainly in research that approaches each of the problems separately and sequentially which can lead to isolated and suboptimal solutions After discussing the complexity of the relaxed subproblems that would need to be solved to optimize the intricate winter maintenance operations the research turns to a heuristic approach to more feasibly address the interrelated problems This report subsequently presents a systematic heuristic based optimization approach to integrate the winter road maintenance planning decisions for depot location sector design vehicle route design vehicle scheduling and fleet configuration The approach presented is illustrated through an example of public sector winter road maintenance planning for a rural transportation network in Boone County Missouri When applied to the

real world winter road maintenance planning problems for Boone County the methodology delivered very promising results The solution methodology successfully achieves the objective of a more integrated and less sequential approach to the problems considered The integrated solution would allow the Missouri Department of Transportation MoDOT to maintain the same high level of service with significantly fewer resources The results indicate that this methodology is a successful step towards solving realistic multiple depot problems involving heterogeneous winter maintenance fleets *INFOR.* ,2005

Modeling and Control in Environmental Issues 2001 Akira Sano, S. Nishioka, Shūzō Nishioka, Hiroyuki Tamura, 2002 Environmental issues is one of the significantly important subjects to be solved on a global scale for attaining sustainable developments in the new century A major feature of environmental issues is that studies on environments are interdisciplinary and should deal with complex and heterogeneous systems which include chemical physical and biological phenomena and further socio economical activities and technology developments for energy saving and CO₂ emission reduction The workshop provided the forum for presentation of new developments in the important interdisciplinary field of environmental systems involving the application of concepts methods and techniques of modeling and control The aim was to review state of the art systems and control approaches exchange new results in interdisciplinary fields and look at feasible developments to the future The scope of this workshop covered various aspects of systems and control approaches to environmental issues Environmental assessment Systems approaches to environmental management and strategies Modeling of global warming and impact analysis on socio structure Modeling of ecological systems Control and optimization of environmental quantities System reform and integration for environments Advanced control technology for reduction of energy consumption and CO₂ emission Cogeneration systems Control systems approaches to clean energy Fuel cells and their applications Systems Integration technologies in urban planning Systems modeling and data analysis in life cycle assessment Manufacturing in symbiosis with environments Modeling and control of waste incineration plant Water quality control and waste water management Other related topics **Annotated Bibliographies in Combinatorial Optimization**

Mauro Dell'Amico, Francesco Maffioli, Silvano Martello, 1997-08-28 Wiley Interscience Series in Discrete Mathematics and Optimization Advisory Editors Ronald L Graham Jan Karel Lenstra Robert E Tarjan Discrete Mathematics and Optimization involves the study of finite structures and is one of the fastest growing areas in mathematics today The level and depth of recent advances in the area and the wide applicability of its evolving techniques point to the rapidity with which the field is moving and presage the ever increasing interaction between it and computer science The Series provides a broad coverage of discrete mathematics and optimization ranging over such fields as combinatorics graph theory enumeration mathematical programming and the analysis of algorithms and including such topics as Ramsey theory transversal theory block designs finite geometries Polya theory graph and matroid algorithms network flows polyhedral combinatorics and computational complexity The Wiley Interscience Series in Discrete Mathematics and Optimization will be a substantial part of the record in

this extraordinary development Recent titles in the Series Local Search in Combinatorial Optimization Edited by Emile H L Aarts Philips Research Laboratories Eindhoven and Eindhoven University of Technology Eindhoven Jan Karel Lenstra Eindhoven University of Technology Eindhoven and CWI Amsterdam In the past three decades local search has grown from a simple heuristic idea into a mature field of research in combinatorial optimization Local search is still the method of choice for NP hard problems as it provides a robust approach for obtaining high quality solutions to problems of a realistic size in a reasonable time This area of discrete mathematics is of great practical use and is attracting ever increasing attention The contributions to this book cover local search and its variants from both a theoretical and practical point of view each with a chapter written by leading authorities on that particular aspect Chapters 1 to 7 deal with the theory of local search and describe the principal search strategies such as simulated annealing tabu search genetic algorithms and neural networks The remaining chapters present a wealth of results on applications of local search to problems in management science and engineering including the traveling salesman problem vehicle routing machine scheduling VLSI design and code design This book is an important reference volume and an invaluable source of inspiration for advanced students and researchers in discrete mathematics computer science operations research industrial engineering and management science Algorithms,2002

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