

COMBINATORIAL OPTIMIZATION

The Quadratic Assignment Problem Theory and Algorithms

Eranda Çela

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The Quadratic Assignment Problem Theory And Algorithms Combinatorial Optimization

Weili Wu,Zhongnan Zhang



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The Quadratic Assignment Problem E. Cela, 2013-03-14 The quadratic assignment problem QAP was introduced in 1957 by Koopmans and Beckmann to model a plant location problem Since then the QAP has been object of numerous investigations by mathematicians computers scientists operations researchers and practitioners Nowadays the QAP is widely considered as a classical combinatorial optimization problem which is still attractive from many points of view In our opinion there are at least three main reasons which make the QAP a popular problem in combinatorial optimization First the number of real life problems which are mathematically modeled by QAPs has been continuously increasing and the variety of the fields they belong to is astonishing To recall just a restricted number among the applications of the QAP let us mention placement problems scheduling manufacturing VLSI design statistical data analysis and parallel and distributed computing Secondly a number of other well known combinatorial optimization problems can be formulated as QAPs Typical examples are the traveling salesman problem and a large number of optimization problems in graphs such as the maximum clique problem the graph partitioning problem and the minimum feedback arc set problem Finally from a computational point of view the QAP is a very difficult problem The QAP is not only NP hard and hard to approximate but it is also practically intractable it is generally considered as impossible to solve to optimality QAP instances of size larger than 20 within reasonable time limits

The Quadratic Assignment Problem E. Cela, 2014-01-15 *Assignment Problems, Revised Reprint* Rainer Burkard, Mauro Dell'Amico, Silvano Martello, 2012-10-31 *Assignment Problems* is a useful tool for researchers practitioners and graduate students In 10 self contained chapters it provides a comprehensive treatment of assignment problems from their conceptual beginnings through present day theoretical algorithmic and practical developments The topics covered include bipartite matching algorithms linear assignment problems quadratic assignment problems multi index assignment problems and many variations of these Researchers will benefit from the detailed exposition of theory and algorithms related to assignment problems including the basic linear sum assignment problem and its variations Practitioners will learn about practical applications of the methods the performance of exact and heuristic algorithms and software options This book also can serve as a text for advanced courses in areas related to discrete mathematics and combinatorial optimisation The revised reprint provides details on a recent discovery related to one of Jacobi's results new material on inverse assignment problems and quadratic assignment problems and an updated bibliography

Combinatorial Optimization and Applications Weili Wu, Zhongnan Zhang, 2020-12-04 This volume constitutes the proceedings of the 14th International Conference on Combinatorial Optimization and Applications COCOA 2020 held in Dallas TX USA in December 2020 The 55 full papers presented in this volume were carefully reviewed and selected from 104 submissions The papers are grouped into the following topics Approximation Algorithms Scheduling Network Optimization Complexity and Logic Search Facility and Graphs Geometric Problem Sensors Vehicles and Graphs and Graph Problems Due to the Corona pandemic this event was

held virtually **Encyclopedia of Optimization** Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling Algorithms and Theoretical Topics on Selected Combinatorial Optimization Problems Arman Kaveh, 2010 We study the Quadratic Assignment Problem QAP Three Dimensional Assignment Problem 3AP and Quadratic Three Dimensional Assignment Problem Q3AP which combines aspects of both QAP and 3AP The three problems are known to be NP hard We propose new algorithms for obtaining near optimal solutions of QAP and 3AP and present computational results Our algorithms obtain improved solutions in some benchmark instances of QAP and 3AP We also discuss theoretical results on 3AP and Q3AP such as polynomially solvable special cases and approximation algorithms A special case of 3AP is the constant 3AP where every feasible solution has the same cost Necessary and sufficient conditions are presented for an instance of 3AP to have a constant solution and the result is extended to Multidimensional Assignment Problems MAP

Paradigms of Combinatorial Optimization Vangelis Th. Paschos, 2013-05-06 Combinatorial optimization is a multidisciplinary scientific area lying in the interface of three major scientific domains mathematics theoretical computer science and management The three volumes of the Combinatorial Optimization series aims to cover a wide range of topics in this area These topics also deal with fundamental notions and approaches as with several classical applications of combinatorial optimization Paradigms of Combinatorial Optimization is divided in two parts Paradigmatic Problems that handles several famous combinatorial optimization problems as max cut min coloring optimal satisfiability tsp etc the study of which has largely contributed to both the development the legitimization and the establishment of the Combinatorial Optimization as one of the most active actual scientific domains Classical and New Approaches that presents the several methodological approaches that fertilize and are fertilized by Combinatorial optimization such as Polynomial Approximation Online Computation Robustness etc and more recently Algorithmic Game Theory The Quadratic Unconstrained Binary Optimization Problem Abraham P. Punnen, 2022-07-12 The quadratic binary optimization problem QUBO is a versatile combinatorial optimization model with a variety of applications and rich theoretical properties Application areas of the model include finance cluster analysis traffic management machine scheduling VLSI physical design physics quantum computing engineering and medicine In addition various mathematical optimization models can be reformulated as a QUBO including the resource constrained assignment problem set partitioning problem maximum cut problem quadratic assignment problem the bipartite unconstrained binary optimization problem among others This book presents a systematic development of

theory algorithms and applications of QUBO It offers a comprehensive treatment of QUBO from various viewpoints including a historical introduction along with an in depth discussion of applications modelling complexity and polynomially solvable special cases exact and heuristic algorithms analysis of approximation algorithms metaheuristics polyhedral structure probabilistic analysis persistencies and related topics Available software for solving QUBO is also introduced including public domain commercial as well as quantum computing based codes

Handbook on Semidefinite, Conic and Polynomial Optimization Miguel F. Anjos, Jean B. Lasserre, 2011-11-19 Semidefinite and conic optimization is a major and thriving research area within the optimization community Although semidefinite optimization has been studied under different names since at least the 1940s its importance grew immensely during the 1990s after polynomial time interior point methods for linear optimization were extended to solve semidefinite optimization problems Since the beginning of the 21st century not only has research into semidefinite and conic optimization continued unabated but also a fruitful interaction has developed with algebraic geometry through the close connections between semidefinite matrices and polynomial optimization This has brought about important new results and led to an even higher level of research activity This Handbook on Semidefinite Conic and Polynomial Optimization provides the reader with a snapshot of the state of the art in the growing and mutually enriching areas of semidefinite optimization conic optimization and polynomial optimization It contains a compendium of the recent research activity that has taken place in these thrilling areas and will appeal to doctoral students young graduates and experienced researchers alike The Handbook's thirty one chapters are organized into four parts Theory covering significant theoretical developments as well as the interactions between conic optimization and polynomial optimization Algorithms documenting the directions of current algorithmic development Software providing an overview of the state of the art Applications dealing with the application areas where semidefinite and conic optimization has made a significant impact in recent years

The Sharpest Cut Martin Groetschel, 2004-01-01 This title is written in honor of Manfred Padberg who has made fundamental contributions to both the theoretical and computational sides of integer programming and combinatorial optimization This outstanding collection presents recent results in these areas that are closely connected to Padberg's research His deep commitment to the geometrical approach to combinatorial optimization can be felt throughout this volume his search for increasingly better and computationally efficient cutting planes gave rise to its title The peer reviewed papers contained here are based on invited lectures given at a workshop held in October 2001 to celebrate Padberg's 60th birthday Grouped by topic packing stable sets and perfect graphs polyhedral combinatorics general polytopes semidefinite programming computation many of the papers set out to solve challenges set forth in Padberg's work The book also shows how Padberg's ideas on cutting planes have influenced modern commercial optimization software

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