The Quadratic Assignment Problem (QAP)

We resorted the matrix

$$D = \begin{array}{c} \\ A \\ B \\ C \end{array} \begin{array}{ccc} A & B & C \\ \left[\begin{array}{ccc} 0 & 1 & 2 \\ 1 & 0 & 1 \\ 3 & 1 & 0 \end{array} \right] \end{array}$$

such that row and columns appear the following sequence
$1 \rightarrow C, 2 \rightarrow A$ and $3 \rightarrow B$, i.e C, A, B
(it is advisable to perform the resorting in 2 steps: first rows than columns
or the other way round)

$$D = \begin{array}{c} \\ A \\ B \\ C \end{array} \begin{array}{ccc} A & B & C \\ \left[\begin{array}{ccc} 0 & 1 & 2 \\ 1 & 0 & 1 \\ 3 & 1 & 0 \end{array} \right] \end{array} \rightarrow D = \begin{array}{c} \\ A \\ B \\ C \end{array} \begin{array}{ccc} C & A & B \\ \left[\begin{array}{ccc} 2 & 0 & 1 \\ 1 & 1 & 0 \\ 0 & 3 & 1 \end{array} \right] \end{array} \rightarrow D = \begin{array}{c} \\ C \\ A \\ B \end{array} \begin{array}{ccc} C & A & B \\ \left[\begin{array}{ccc} 0 & 3 & 1 \\ 2 & 0 & 1 \\ 1 & 1 & 0 \end{array} \right] \end{array}$$

Quadratic Assignment And Related Problems

Almerico Murli,Gerardo Toraldo

Quadratic Assignment And Related Problems:

  Quadratic Assignment and Related Problems Panos M. Pardalos,Henry Wolkowicz,1994-01-01 The methods described here include eigenvalue estimates and reduction techniques for lower bounds parallelization genetic algorithms polyhedral approaches greedy and adaptive search algorithms   **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 ope tions 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 last three main reasons which make the QAP a popular problem in combinatorial optimization First the number of re 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 c binatorial 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   *Recent Advances and Challenges in Quadratic Assignment and Related Problems* Yi-Rong Zhu,2007   The Quadratic Assignment Problem E. Cela,2014-01-15

  Quadratic Assignment and Related Problems Panos M. Pardalos,Henry Wolkowicz,1994-01-01 This book the first dedicated to quadratic assignment problems contains refereed papers presented at the Workshop on Quadratic Assignment and Related Problems held at DIMACS in May 1993 Bringing together researchers from academia and industry the workshop focused on recent computational approaches and applications The methods described here include eigenvalue estimates and reduction techniques for lower bounds parallelization genetic algorithms polyhedral approaches greedy and adaptive search algorithms The applications include graph bandwidth problems telecommunications network design load balancing VLSI design data association problems and multidimensional assignment problems In addition this book contains a survey article with an extensive bibliography   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 **Nonlinear Assignment Problems** Panos M. Pardalos,L.S. Pitsoulis,2013-03-09 Nonlinear Assignment Problems NAPs are natural extensions of the classic Linear Assignment Problem and despite the efforts of many researchers over the past three decades they still remain some of the hardest combinatorial optimization problems to solve exactly The purpose of this book is to provide in a single volume major algorithmic aspects and applications of NAPs as contributed by leading international experts The chapters included in this book are concerned with major applications and the latest algorithmic solution approaches for NAPs Approximation algorithms polyhedral methods semidefinite programming approaches and heuristic procedures for NAPs are included while applications of this problem class in the areas of multiple target tracking in the context of military surveillance systems of experimental high energy physics and of parallel processing are presented Audience Researchers and graduate students in the areas of combinatorial optimization mathematical programming operations research physics and computer science *Parallel Processing of Discrete Problems* Panos M. Pardalos,2012-12-06 In the past two decades breakthroughs in computer technology have made a tremendous impact on optimization In particular availability of parallel computers has created substantial interest in exploring the use of parallel processing for solving discrete and global optimization problems The chapters in this volume cover a broad spectrum of recent research in parallel processing of discrete and related problems The topics discussed include distributed branch and bound algorithms parallel genetic algorithms for large scale discrete problems simulated annealing parallel branch and bound search under limited memory constraints parallelization of greedy randomized adaptive search procedures parallel optical models of computing randomized parallel algorithms general techniques for the design of parallel discrete algorithms parallel algorithms for the solution of quadratic assignment and satisfiability problems The book will be a valuable source of information to faculty students and researchers in combinatorial optimization and related areas *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

Handbook of combinatorial optimization Dingzhu Du,Panos M. Pardalos,1998-12-15 Combinatorial or discrete optimization is one of the most active fields in the interface of operations research computer science and applied math ematics Combinatorial optimization problems arise in various applications including communications network design VLSI design machine vision air line crew scheduling corporate planning computer aided design and man ufacturing database query design cellular telephone frequency assignment constraint directed reasoning and computational biology Furthermore combinatorial optimization problems occur in many diverse areas such as linear and integer programming graph theory artificial intelligence and number theory All these problems when formulated mathematically as the minimization or maximization of a certain function defined on some domain have a commonality of discreteness Historically combinatorial optimization starts with linear programming Linear programming has an entire range of important applications including production planning and distribution personnel assignment finance alloca tion of economic resources circuit simulation and control systems Leonid Kantorovich and Tjalling Koopmans received the Nobel Prize 1975 for their work on the optimal allocation of resources Two important discover ies the ellipsoid method 1979 and interior point approaches 1984 both provide polynomial time algorithms for linear programming These algo rithms have had a profound effect in combinatorial optimization Many polynomial time solvable combinatorial optimization problems are special cases of linear programming e g matching and maximum flow In addi tion linear programming relaxations are often the basis for many approxi mation algorithms for solving NP hard problems e g dual heuristics   *Evolutionary Computation in Combinatorial Optimization* Jens Gottlieb,Günther R. Raidl,2004-03-09 Evolutionary Computation EC involves the study of problem solving and op mization techniques inspired by principles of natural evolution and genetics EC has been able to draw the attention of an increasing number of researchers and practitioners in several elds Evolutionary algorithms have in particular been showntobee ectivefordi cultcombinatorialoptimizationproblemsappearing in various industrial economic and scienti c domains This volume contains the proceedings of EvoCOP 2004 the 4th European ConferenceonEvolutionaryComputationinCombinatorialOptimization Itwas held in Coimbra Portugal on April 5 7 2004 jointly with EuroGP 2004 the 7th European Conference on Genetic Programming and EvoWorkshops 2004 which consisted of the following six individual workshops EvoBIO the 2nd ropean Workshop on Evolutionary Bioinformatics EvoCOMNET the 1st ropean Workshop on Evolutionary Computation in Communications Networks and Connected Systems EvoHOT the 1st European Workshop on Hardware Optimisation EvoIASP the 6th European Workshop on Evolutionary Com tation in Image Analysis and Signal Processing EvoMUSART the 2nd Eu pean Workshop on Evolutionary Music and Art and EvoSTOC the 1st Eu pean Workshop on Evolutionary Algorithms in Stochastic and Dynamic En ronments   *Paradigms of Combinatorial Optimization* Vangelis Th. Paschos,2014-08-08 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 aim 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 Concepts of Combinatorial Optimization is divided into three parts On the complexity of combinatorial optimization problems presenting basics about worst case and randomized complexity Classical solution methods presenting the two most known methods for solving hard combinatorial optimization problems that are Branch and Bound and Dynamic Programming Elements from mathematical programming presenting fundamentals from mathematical programming based methods that are in the heart of Operations Research since the origins of this field **Parallel Algorithms for Irregular Problems: State of the Art** Alfonso Ferreira,José Rolim,2013-04-17 Efficient parallel solutions have been found to many problems Some of them can be obtained automatically from sequential programs using compilers However there is a large class of problems irregular problems that lack efficient solutions IRREGULAR 94 a workshop and summer school organized in Geneva addressed the problems associated with the derivation of efficient solutions to irregular problems This book which is based on the workshop draws on the contributions of outstanding scientists to present the state of the art in irregular problems covering aspects ranging from scientific computing discrete optimization and automatic extraction of parallelism Audience This first book on parallel algorithms for irregular problems is of interest to advanced graduate students and researchers in parallel computer science *Handbook of Combinatorial Optimization* Ding-Zhu Du,Panos M. Pardalos,2013-12-01 Combinatorial or discrete optimization is one of the most active fields in the interface of operations research computer science and applied math ematics Combinatorial optimization problems arise in various applications including communications network design VLSI design machine vision air line crew scheduling corporate planning computer aided design and man ufacturing database query design cellular telephone frequency assignment constraint directed reasoning and computational biology Furthermore combinatorial optimization problems occur in many diverse areas such as linear and integer programming graph theory artificial intelligence and number theory All these problems when formulated mathematically as the minimization or maximization of a certain function defined on some domain have a commonality of discreteness Historically combinatorial optimization starts with linear programming Linear programming has an entire range of important applications including production planning and distribution personnel assignment finance alloca tion of economic resources circuit simulation and control systems Leonid Kantorovich and Tjalling Koopmans received the Nobel Prize 1975 for their work on the optimal allocation of resources Two important discover ies the ellipsoid method 1979 and interior point approaches 1984 both provide polynomial time algorithms for linear programming These algo rithms have had a profound effect in combinatorial optimization Many polynomial time solvable combinatorial optimization problems are special cases of linear programming e g matching and maximum flow In addi tion linear programming relaxations are often the basis for many approxi mation algorithms for solving NP hard problems e g dualheuristics **Computational Issues in High Performance Software for**

Nonlinear Optimization Almerico Murli,Gerardo Toraldo,2007-06-14 Computational Issues in High Performance Software for Nonlinear Research brings together in one place important contributions and up to date research results in this important area Computational Issues in High Performance Software for Nonlinear Research serves as an excellent reference providing insight into some of the most important research issues in the field **State of the Art in Global Optimization** Christodoulos A. Floudas,Panos M. Pardalos,2013-12-01 Optimization problems abound in most fields of science engineering and tech nology In many of these problems it is necessary to compute the global optimum or a good approximation of a multivariable function The variables that define the function to be optimized can be continuous and or discrete and in addition many times satisfy certain constraints Global optimization problems belong to the complexity class of NP hard prob lems Such problems are very difficult to solve Traditional descent optimization algorithms based on local information are not adequate for solving these problems In most cases of practical interest the number of local optima increases on the aver age exponentially with the size of the problem number of variables Furthermore most of the traditional approaches fail to escape from a local optimum in order to continue the search for the global solution Global optimization has received a lot of attention in the past ten years due to the success of new algorithms for solving large classes of problems from diverse areas such as engineering design and control computational chemistry and biology structural optimization computer science operations research and economics This book contains refereed invited papers presented at the conference on State of the Art in Global Optimization Computational Methods and Applications held at Princeton University April 28 30 1995 The conference presented current re search on global optimization and related applications in science and engineering The papers included in this book cover a wide spectrum of approaches for solving global optimization problems and applications

Metaheuristics Mauricio G.C. Resende,J. Pinho de Sousa,2013-06-29 Combinatorial optimization is the process of finding the best or optimal so lution for problems with a discrete set of feasible solutions Applications arise in numerous settings involving operations management and logistics such as routing scheduling packing inventory and production management lo cation logic and assignment of resources The economic impact of combi natorial optimization is profound affecting sectors as diverse as transporta tion airlines trucking rail and shipping forestry manufacturing logistics aerospace energy electrical power petroleum and natural gas telecommu nications biotechnology financial services and agriculture While much progress has been made in finding exact provably optimal so lutions to some combinatorial optimization problems using techniques such as dynamic programming cutting planes and branch and cut methods many hard combinatorial problems are still not solved exactly and require good heuristic methods Moreover reaching optimal solutions is in many cases meaningless as in practice we are often dealing with models that are rough simplifications of reality The aim of heuristic methods for combinatorial op timization is to quickly produce good quality solutions without necessarily providing any guarantee of solution quality Metaheuristics are high level procedures that coordinate simple heuristics such as local search to find solu

tions that are of better quality than those found by the simple heuristics alone Modem metaheuristics include simulated annealing genetic algorithms tabu search GRASP scatter search ant colony optimization variable neighborhood search and their hybrids **The Quadratic Assignment Problem** Rainer E. Burkard,Eranda Çela,Panos M. Pardalos,Leonidas S. Pitsoulis,1998 **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 *Modern Methods for Business Research* George A. Marcoulides,1998-03-01 This volume introduces the latest popular methods for conducting business research The goal of each chapter author a leading authority in a particular subject area is to provide an understanding of each method with a minimum of mathematical derivations The chapters are organized within three general interrelated topics Measurement Decision Analysis and Modeling The chapters on measurement discuss generalizability theory latent trait and latent class models and multi faceted Rasch modeling The chapters on decision analysis feature applied location theory models data envelopment analysis and heuristic search procedures The chapters on modeling examine exploratory and confirmatory factor analysis dynamic factor analysis partial least squares and structural equation modeling multilevel data analysis modeling of longitudinal data by latent growth curve methods and structures and configural models of longitudinal categorical data

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