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Approximation Algorithms



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Approximation Algorithms for Combinatorial Optimization Klaus Jansen, Samir Khuller, 2003-07-31 This book constitutes the refereed proceedings of the Third International Workshop on Approximation Algorithms for Combinatorial Optimization Problems APPROX 2000 held in Saarbrücken Germany in September 2000 The 22 revised full papers presented together with four invited contributions were carefully reviewed and selected from 68 submissions The topics dealt with include design and analysis of approximation algorithms inapproximability results on line problems randomization techniques average case analysis approximation classes scheduling problems routing and flow problems coloring and partitioning cuts and connectivity packing and covering geometric problems network design and various applications

Approximation Algorithms Vijay V. Vazirani, 2013-03-14 Most natural optimization problems including those arising in important application areas are NP hard Therefore under the widely believed conjecture that $P \neq NP$ their exact solution is prohibitively time consuming Charting the landscape of approximability of these problems via polynomial time algorithms therefore becomes a compelling subject of scientific inquiry in computer science and mathematics This book presents the theory of approximation algorithms This book is divided into three parts Part I covers combinatorial algorithms for a number of important problems using a wide variety of algorithm design techniques Part II presents linear programming based algorithms These are categorized under two fundamental techniques rounding and the primal dual schema Part III covers four important topics the first is the problem of finding a shortest vector in a lattice the second is the approximability of counting as opposed to optimization problems the third topic is centered around recent breakthrough results establishing hardness of approximation for many key problems and giving new legitimacy to approximation algorithms as a deep theory and the fourth topic consists of the numerous open problems of this young field This book is suitable for use in advanced undergraduate and graduate level courses on approximation algorithms An undergraduate course in algorithms and the theory of NP completeness should suffice as a prerequisite for most of the chapters This book can also be used as supplementary text in basic undergraduate and graduate algorithms courses

The Design of Approximation Algorithms David P. Williamson, David B. Shmoys, 2011-04-26 Discrete optimization problems are everywhere from traditional operations research planning scheduling facility location and network design to computer science databases to advertising issues in viral marketing Yet most such problems are NP hard unless $P = NP$ there are no efficient algorithms to find optimal solutions This book shows how to design approximation algorithms efficient algorithms that find provably near optimal solutions The book is organized around central algorithmic techniques for designing approximation algorithms including greedy and local search algorithms dynamic programming linear and semidefinite programming and randomization Each chapter in the first section is devoted to a single algorithmic technique applied to several different problems with more sophisticated treatment in the second section The book also covers methods for proving that optimization problems are hard to approximate Designed as a textbook for

graduate level algorithm courses it will also serve as a reference for researchers interested in the heuristic solution of discrete optimization problems

Approximation and Online Algorithms Evripidis Bampis, 2009-02-02 This book constitutes the thoroughly refereed post workshop proceedings of the 6th International Workshop on Approximation and Online Algorithms WAOA 2008 held in Karlsruhe Germany in September 2008 as part of the ALGO 2008 conference event The 22 revised full papers presented were carefully reviewed and selected from 56 submissions The workshop covered areas such as algorithmic game theory approximation classes coloring and partitioning competitive analysis computational finance cuts and connectivity geometric problems inapproximability results mechanism design network design packing and covering paradigms for design and analysis of approximation and online algorithms randomization techniques real world applications and scheduling problems

Integer Programming and Combinatorial Optimization Michael Jünger, Volker Kaibel, 2005-06 This book constitutes the refereed proceedings of the 11th International Conference on Integer Programming and Combinatorial Optimization IPCO 2005 held in Berlin Germany in June 2005 The 34 revised full papers presented were carefully reviewed and selected from 119 submissions Among the topics addressed are mixed integer programming graph theory graph algorithms approximation linear programming approximability packing scheduling computational geometry randomization network algorithms sequencing TSP and travelling salesman problem

Algorithms - ESA 2005 Gerth S. Brodal, Stefano Leonardi, 2005-10-07 This book constitutes the refereed proceedings of the 13th Annual European Symposium on Algorithms ESA 2005 held in Palma de Mallorca Spain in September 2005 in the context of the combined conference ALGO 2005 The 75 revised full papers presented together with abstracts of 3 invited lectures were carefully reviewed and selected from 244 submissions The papers address all current issues in algorithmics reaching from design and mathematical issues over real world applications in various fields up to engineering and analysis of algorithms

Algorithms - ESA 2009 Amos Fiat, Peter Sanders, 2009-09-19 This volume contains the papers presented at ESA 2009 The 17th Annual European Symposium on Algorithms September 7-9 2009 ESA has been held annually since 1993 and seeks to cover both theoretical and engineering aspects of algorithms The authors were asked to classify their paper under one or more categories as described in Fig 1 Since 2001 ESA has been the core of the larger ALGO conference which typically includes several satellite conferences ALGO 2009 was held at the IT University of Copenhagen Denmark The members of the ALGO 2009 organizing Committee were chaired by Thore Husfeldt The ESA submission deadline was April 12 Easter Sunday This was clearly an error and we offer profuse apologies for this mistake Albeit no excuse the hard constraints we faced were a IICALP notification April 6 and b ESA in Copenhagen September 7 Between these two endpoints we needed to design a schedule that allowed modifying IICALP rejections for resubmission 1 week Program Committee deliberations 7 weeks preparing final versions 4 weeks and to prepare publish and transport the proceedings 9 weeks ESA 2009 had 272 submissions of which 14 were withdrawn overtime Of the remaining 222 submissions to Track A Design and Analysis 56 were accepted Of the

remaining 36 submissions to Track B Engineering and Applications 10 were accepted This gives an acceptance rate of slightly under 25% Handbook of Approximation Algorithms and Metaheuristics Teofilo F. Gonzalez, 2007-05-15

Delineating the tremendous growth in this area the Handbook of Approximation Algorithms and Metaheuristics covers fundamental theoretical topics as well as advanced practical applications It is the first book to comprehensively study both approximation algorithms and metaheuristics Starting with basic approaches the handbook presents the methodologies to design and analyze efficient approximation algorithms for a large class of problems and to establish inapproximability results for another class of problems It also discusses local search neural networks and metaheuristics as well as multiobjective problems sensitivity analysis and stability After laying this foundation the book applies the methodologies to classical problems in combinatorial optimization computational geometry and graph problems In addition it explores large scale and emerging applications in networks bioinformatics VLSI game theory and data analysis Undoubtedly sparking further developments in the field this handbook provides the essential techniques to apply approximation algorithms and metaheuristics to a wide range of problems in computer science operations research computer engineering and economics Armed with this information researchers can design and analyze efficient algorithms to generate near optimal solutions for a wide range of computational intractable problems **Encyclopedia of Algorithms** Ming-Yang Kao, 2008-08-06 One of Springer's renowned Major Reference Works this awesome achievement provides a comprehensive set of solutions to

important algorithmic problems for students and researchers interested in quickly locating useful information This first edition of the reference focuses on high impact solutions from the most recent decade while later editions will widen the scope of the work All entries have been written by experts while links to Internet sites that outline their research work are provided The entries have all been peer reviewed This defining reference is published both in print and on line

Degree-constrained editing of small-degree graphs Nichterlein, Andre, 2015-07-03 This thesis deals with degree constrained graph modification problems In particular we investigate the computational complexity of DAG Realization and Degree Anonymity The DAG Realization problem is given a multiset of positive integer pairs to decide whether there is a realizing directed acyclic graph DAG that is pairs are one to one assigned to vertices such that the indegree and the outdegree of every vertex coincides with the two integers of the assigned pair The Degree Anonymity problem is given an undirected graph G and two positive integers k and s to decide whether at most s graph modification operations can be performed in G in order to obtain a k anonymous graph that is a graph where for each vertex there are $k-1$ other vertices with the same degree We classify both problems as NP complete that is there are presumably no polynomial time algorithms that can solve every instance of these problems Confronted with this worst case intractability we perform a parameterized complexity study in order to detect efficiently solvable special cases that are still practically relevant The goal herein is to develop fixed parameter algorithms where the seemingly unavoidable exponential dependency in the running time is

confined to a parameter of the input. If the parameter is small then the corresponding fixed parameter algorithm is fast. The parameter thus measures some structure in the input whose exploitation makes the particular input tractable. Considering Degree Anonymity two natural parameters provided with the input are anonymity level k and solution size s . However we will show that Degree Anonymity is $W[1]$ hard with respect to the parameter s even if $k \geq 2$. This means that the existence of fixed parameter algorithms for s and k is very unlikely. Thus other parameters have to be considered. We will show that the parameter maximum vertex degree is very promising for both DAG Realization and Degree Anonymity. Herein for Degree Anonymity we consider the maximum degree of the input graph. Considering DAG Realization we take the maximum degree in a realizing DAG. Due to the problem definition we can easily determine the maximum degree by taking the maximum over all integers in the given multiset. We provide fixed parameter algorithms with respect to the maximum degree for DAG Realization and for Anonym E Ins. The later is the variant of Degree Anonymity when only edge insertions are allowed as modification operations. If we allow edge deletions or vertex deletions as graph modification operations then we can show that the corresponding variants of Degree Anonymity called Anonym V Del and Anonym E Del are NP complete even if the maximum vertex degree is seven. Moreover we provide strong intractability results for Anonym E Del and Anonym V Del proving that they remain NP complete in several restricted graph classes. Studying the approximability of natural optimization problems associated with Anonym E Del or Anonym V Del we obtain negative results showing that none of the considered problems can be approximated in polynomial time better than within a factor of $n^{1/2}$ where n denotes the number of vertices in the input. Furthermore for the optimization variants where the solution size s is given and the task is to maximize the anonymity level k this inapproximability even holds if we allow a running time that is exponential in s . Observe that DAG Realization also can be seen as degree constrained graph modification problem where only arc insertions are allowed. Starting with an arcless graph the task is to insert arcs to obtain a realizing DAG for the given multiset. The above classification with respect to the parameter maximum degree shows that in graphs with small maximum degree the modification operation edge respectively arc insertion is easier than vertex or edge deletion. There is a plausible explanation for this behavior. When the maximum degree is small then there is a high freedom in inserting edges or arcs as for a given vertex almost all other vertices can be chosen as new neighbor. Observe that for DAG Realization the additional requirement that the directed graph shall be acyclic restricts this freedom. In Anonym E Ins we do not have restrictions on this freedom. In fact exploiting this freedom in our implementation for Anonym E Ins we show that our theoretical ideas can be turned into successful heuristics and lower bounds. Experiments on several large scale real world datasets show that our implementation significantly improves on a recent heuristic and provides provably optimal solutions on about 21 % 56 of 260 of the real world data.

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