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**Polyhedral Combinatorics
and the
Acyclic Subdigraph Problem**

Polyhedral Combinatorics And The Acyclic Subdigraph Problem

Christian G. Meyer

Polyhedral Combinatorics And The Acyclic Subdigraph Problem:

Polyhedral Combinatorics and the Acyclic Subdigraph Problem Michael Jünger,1985 <u>Handbook of Combinatorics</u> R.L. Graham,Martin Grötschel,László Lovász,1995-12-11 **Combinatorial Optimization** Alexander Schrijver,2003-02-12 This book offers an in depth overview of polyhedral methods and efficient algorithms in combinatorial optimization These methods form a broad coherent and powerful kernel in combinatorial optimization with strong links to discrete mathematics mathematical programming and computer science In eight parts various areas are treated each starting with an elementary introduction to the area with short elegant proofs of the principal results and each evolving to the more advanced methods and results with full proofs of some of the deepest theorems in the area Over 4000 references to further research are given and historical surveys on the basic subjects are presented <u>The Linear Ordering Problem</u> Rafael Martí,Gerhard Reinelt,2011-01-03 Faced with the challenge of solving the hard optimization problems that abound in the real world existing methods often encounter great difficulties Important applications in business engineering or economics cannot be tackled by the techniques that have formed the predominant focus of academic research throughout the past three decades Exact and heuristic approaches are dramatically changing our ability to solve problems of practical significance and are extending the frontier of problems that can be handled effectively This monograph details state of the art optimization methods both exact and heuristic for the LOP The authors employ the LOP to illustrate contemporary optimization technologies as well as how to design successful implementations of exact and heuristic procedures Therefore they do not limit the scope of this book to the LOP but on the contrary provide the reader with the background and practical strategies in optimization to tackle different combinatorial problems **Facets of Combinatorial Optimization** Michael Jünger,Gerhard Reinelt,2013-07-03 Martin Gr tschel is one of the most influential mathematicians of our time He has received numerous honors and holds a number of key positions in the international mathematical community He celebrated his 65th birthday on September 10 2013 Martin Gr tschel s doctoral descendant tree 1983 2012 i e the first 30 years features 39 children 74 grandchildren 24 great grandchildren and 2 great great grandchildren a total of 139 doctoral descendants This book starts with a personal tribute to Martin Gr tschel by the editors Part I a contribution by his very special predecessor Manfred Padberg on Facets and Rank of Integer Polyhedra Part II and the doctoral descendant tree 1983 2012 Part III The core of this book Part IV contains 16 contributions each of which is coauthored by at least one doctoral descendant The sequence of the articles starts with contributions to the theory of mathematical optimization including polyhedral combinatorics extended formulations mixed integer convex optimization super classes of perfect graphs efficient algorithms for subtree telecenters junctions in acyclic graphs and preemptive restricted strip covering as well as efficient approximation of non preemptive restricted strip covering Combinations of new theoretical insights with algorithms and experiments deal with network design problems combinatorial optimization problems with submodular objective functions and more general mixed integer nonlinear optimization problems

Applications include VLSI layout design systems biology wireless network design mean risk optimization and gas network optimization Computational studies include a semidefinite branch and cut approach for the max k cut problem mixed integer nonlinear optimal control and mixed integer linear optimization for scheduling and routing of fly in safari planes The two closing articles are devoted to computational advances in general mixed integer linear optimization the first by scientists working in industry the second by scientists working in academia These articles reflect the scientific facets of Martin Gr tschel who has set standards in theory computation and applications **Integer Programming and Related Areas** Rabe v. Randow,2012-12-06 The fields of integer programming and combinatorial optimization continue to be areas of great vitality with an ever increasing number of publications and journals appearing A classified bibliography thus continues to be necessary and useful today even more so than it did when the project of which this is the fifth volume was started in 1970 in the Institut fur Okonometrie und Operations Research of the University of Bonn The pioneering first volume was compiled by Claus Kastning during the years 1970 1975 and appeared in 1976 as Volume 128 of the series Lecture Notes in Economics and Mathematical Systems published by the Springer Verlag Work on the project was continued by Dirk Hausmann Reinhardt Euler and Rabe von Randow and resulted in the publication of the second third and fourth volumes in 1978 1982 and 1985 Volumes 160 197 and 243 of the above series The present book constitutes the fifth volume of the bibliography and covers the period from autumn 1984 to the end of 1987 It contains 5864 new publications by 4480 authors and was compiled by Rabe von Randow Its form is practically identical to that of the first four volumes some additions having been made to the subject list **Exact and Heuristic Methods in Combinatorial Optimization** Rafael Martí,Gerhard Reinelt,2022-03-09 In the last decades algorithmic advances as well as hardware and software improvements have provided an excellent environment to create and develop solving methods to hard optimization problems Modern exact and heuristic techniques are dramatically enhancing our ability to solve significant practical problems This monograph sets out state of the art methodologies for solving combinatorial optimization problems illustrating them with two well known problems This second edition of the book extends the first one by adding to the linear ordering problem LOP included in the first edition the maximum diversity problem MDP In this way we provide the reader with the background elements and strategies to tackle a wide range of different combinatorial optimization problems The exact and heuristic techniques outlined in these pages can be put to use in any number of combinatorial optimization problems While the authors employ the LOP and the MDP to illustrate cutting edge optimization technologies the book is also a tutorial on how to design effective and successful implementations of exact and heuristic procedures alike This monograph provides the basic principles and fundamental ideas that will enable students and practitioners to create valuable applications based on both exact and heuristic technologies Specifically it is aimed at engineers scientists operations researchers and other applications specialists who are looking for the most appropriate and recent optimization tools to solve particular problems The book provides a broad spectrum of

advances in search strategies with a focus on its algorithmic and computational aspects   <u>Research Trends in Combinatorial Optimization</u> William J. Cook,László Lovász,Jens Vygen,2008-11-07 The editors and authors dedicate this book to Bernhard Korte on the occasion of his seventieth birthday We the editors are happy about the overwhelming feedback to our initiative to honor him with this book and with a workshop in Bonn on November 3 7 2008 Althoughthiswouldbeareasontolookback wewouldratherliketolook forward and see what are the interesting research directions today This book is written by leading experts in combinatorial optimization All pers were carefully reviewed and eventually twenty three of the invited papers were accepted for this book The breadth of topics is typical for the eld combinatorial optimization builds bridges between areas like combinatorics and graph theory submodular functions and matroids network ows and connectivity approximation algorithms and mat matical programming computational geometry and polyhedral combinatorics All these topics are related and they are all addressed in this book Combi torial optimization is also known for its numerous applications To limit the scope however this book is not primarily about applications although some are mentioned at various places Most papers in this volume are surveys that provide an excellent overview of an activeresearcharea butthisbookalsocontainsmanynewresults Highlightingmany of the currently most interesting research directions in combinatorial optimization we hope that this book constitutes a good basis for future research in these areas
      Graph-Theoretic Concepts in Computer Science Rolf H. Möhring,1991-04-24 This volume gives the proceedings of WG 90 the 16th in a series of workshops The aim of the workshop series is to contribute to integration in computer science by applying graph theoretic concepts The workshops are unusual in that they combine theoretical aspects with practice and applications The volume is organized into sections on Graph algorithms and complexity VLSI layout Multiprocessor systems and concurrency Computational geometry Graphs languages and databases Graph grammars The volume contains revised versions of nearly all the papers presented at the workshop Several papers take the form of preliminary reports on ongoing research   *High Performance Optimization* Hans Frenk,Kees Roos,Tamás Terlaky,Shuzhong Zhang,2013-04-17 For a long time the techniques of solving linear optimization LP problems improved only marginally Fifteen years ago however a revolutionary discovery changed everything A new golden age for optimization started which is continuing up to the current time What is the cause of the excitement Techniques of linear programming formed previously an isolated body of knowledge Then suddenly a tunnel was built linking it with a rich and promising land part of which was already cultivated part of which was completely unexplored These revolutionary new techniques are now applied to solve conic linear problems This makes it possible to model and solve large classes of essentially nonlinear optimization problems as efficiently as LP problems This volume gives an overview of the latest developments of such High Performance Optimization Techniques The first part is a thorough treatment of interior point methods for semidefinite programming problems The second part reviews today s most exciting research topics and results in the area of convex optimization Audience This volume is for graduate students and

researchers who are interested in modern optimization techniques   Graphs and Order Ivan Rival,2012-12-06 This volume contains the accounts of the principal survey papers presented at GRAPHS and ORDER held at Banff Canada from May 18 to May 31 1984 This conference was supported by grants from the N A T O Advanced Study Institute programme the Natural Sciences and Engineering Research Council of Canada and the University of Calgary We are grateful for all of this considerable support Almost fifty years ago the first Symposium on Lattice Theory was held in Charlottesville U S A On that occasion the principal lectures were delivered by G Birkhoff O Ore and M H Stone In those days the theory of ordered sets was thought to be a vigorous relative of group theory Some twenty five years ago the Symposium on Partially Ordered Sets and Lattice Theory was held in Monterey U S A Among the principal speakers at that meeting were R P Dilworth B Jonsson A Tarski and G Birkhoff Lattice theory had turned inward it was concerned primarily with problems about lattices themselves As a matter of fact the problems that were then posed have by now in many instances been completely solved
     Proceedings of the ...ACM Symposium on Theory of Computing ,2007   **Proceedings of the Thirty-ninth Annual ACM Symposium on Theory of Computing** ACM Special Interest Group for Algorithms and Computation Theory,2007   *Integer Programming and Combinatorial Optimization* Jon Lee,Jens Vygen,2014-05-17 This book constitutes the refereed proceedings of the 17th International Conference on Integer Programming and Combinatorial Optimization IPCO 2014 held in Bonn Germany in June 2014 The 34 full papers presented were carefully reviewed and selected from 143 submissions The conference is a forum for researchers and practitioners working on various aspects of integer programming and combinatorial optimization The aim is to present recent developments in theory computation and applications in these areas The scope of IPCO is viewed in a broad sense to include algorithmic and structural results in integer programming and combinatorial optimization as well as revealing computational studies and novel applications of discrete optimization to practical problems   Integer and Combinatorial Optimization Laurence A. Wolsey,George L. Nemhauser,2014-08-28 Rave reviews for INTEGER AND COMBINATORIAL OPTIMIZATION This book provides an excellent introduction and survey of traditional fields of combinatorial optimization It is indeed one of the best and most complete texts on combinatorial optimization available And with more than 700 entries it has quite an exhaustive reference list Optima A unifying approach to optimization problems is to formulate them like linear programming problems while restricting some or all of the variables to the integers This book is an encyclopedic resource for such formulations as well as for understanding the structure of and solving the resulting integer programming problems Computing Reviews This book can serve as a basis for various graduate courses on discrete optimization as well as a reference book for researchers and practitioners Mathematical Reviews This comprehensive and wide ranging book will undoubtedly become a standard reference book for all those in the field of combinatorial optimization Bulletin of the London Mathematical Society This text should be required reading for anybody who intends to do research in this area or even just to keep abreast of developments Times Higher Education Supplement

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