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Algorithms and Combinatorics

Combinatorial Optimization

Theory and Algorithms

Bernhard Korte
Jens Vygen



Springer

Combinatorial Optimization Theory And Algorithms

Herbert S. Wilf



Combinatorial Optimization Theory And Algorithms:

Combinatorial Optimization Bernhard Korte, Jens Vygen, 2013-06-29 Combinatorial optimization is one of the youngest and most active areas of discrete mathematics and is probably its driving force today It became a subject in its own right about 50 years ago This book describes the most important ideas theoretical results and algorithms in combinatorial optimization We have conceived it as an advanced graduate text which can also be used as an up to date reference work for current research The book includes the essential fundamentals of graph theory linear and integer programming and complexity theory It covers classical topics in combinatorial optimization as well as very recent ones The emphasis is on theoretical results and algorithms with provably good performance Applications and heuristics are mentioned only occasionally Combinatorial optimization has its roots in combinatorics operations research and theoretical computer science A main motivation is that thousands of real life problems can be formulated as abstract combinatorial optimization problems We focus on the detailed study of classical problems which occur in many different contexts together with the underlying theory Most combinatorial optimization problems can be formulated naturally in terms of graphs and as integer linear programs Therefore this book starts after an introduction by reviewing basic graph theory and proving those results in linear and integer programming which are most relevant for combinatorial optimization

Combinatorial Optimization Bernhard Korte, Jens Vygen, 2006-01-27 This well written textbook on combinatorial optimization puts special emphasis on theoretical results and algorithms with provably good performance in contrast to heuristics The book contains complete but concise proofs as well as many deep results some of which have not appeared in any previous books

Combinatorial Optimization Bernhard Korte, Jens Vygen, 2018-03-13 This comprehensive textbook on combinatorial optimization places special emphasis on theoretical results and algorithms with provably good performance in contrast to heuristics It is based on numerous courses on combinatorial optimization and specialized topics mostly at graduate level This book reviews the fundamentals covers the classical topics paths flows matching matroids NP completeness approximation algorithms in detail and proceeds to advanced and recent topics some of which have not appeared in a textbook before Throughout it contains complete but concise proofs and also provides numerous exercises and references This sixth edition has again been updated revised and significantly extended Among other additions there are new sections on shallow light trees submodular function maximization smoothed analysis of the knapsack problem the $\ln 4$ approximation for Steiner trees and the VPN theorem Thus this book continues to represent the state of the art of combinatorial optimization

Combinatorial Optimization, 2002

Combinatorial Optimization William J. Cook, William H. Cunningham, William R. Pulleyblank, Alexander Schrijver, 2011-09-30 A complete highly accessible introduction to one of today's most exciting areas of applied mathematics One of the youngest most vital areas of applied mathematics combinatorial optimization integrates techniques from combinatorics linear programming and the theory of algorithms Because of its success in solving difficult problems in areas

from telecommunications to VLSI from product distribution to airline crew scheduling the field has seen a ground swell of activity over the past decade Combinatorial Optimization is an ideal introduction to this mathematical discipline for advanced undergraduates and graduate students of discrete mathematics computer science and operations research Written by a team of recognized experts the text offers a thorough highly accessible treatment of both classical concepts and recent results The topics include Network flow problems Optimal matching Integrality of polyhedra Matroids NP completeness Featuring logical and consistent exposition clear explanations of basic and advanced concepts many real world examples and helpful skill building exercises Combinatorial Optimization is certain to become the standard text in the field for many years to come

Combinatorial Optimization Vangelis Markakis,2014 *Combinatorial Optimization* Christos H. Papadimitriou,Kenneth Steiglitz,1998-01-01 Clearly written graduate level text considers the Soviet ellipsoid algorithm for linear programming efficient algorithms for network flow matching spanning trees and matroids the theory of NP complete problems approximation algorithms local search heuristics for NP complete problems more Mathematicians wishing a self contained introduction need look no further American Mathematical Monthly 1982 edition *Geometric Algorithms and Combinatorial Optimization* Martin Grötschel,Laszlo Lovasz,Alexander Schrijver,2012-12-06 Historically there is a close connection between geometry and optimization This is illustrated by methods like the gradient method and the simplex method which are associated with clear geometric pictures In combinatorial optimization however many of the strongest and most frequently used algorithms are based on the discrete structure of the problems the greedy algorithm shortest path and alternating path methods branch and bound etc In the last several years geometric methods in particular polyhedral combinatorics have played a more and more profound role in combinatorial optimization as well Our book discusses two recent geometric algorithms that have turned out to have particularly interesting consequences in combinatorial optimization at least from a theoretical point of view These algorithms are able to utilize the rich body of results in polyhedral combinatorics The first of these algorithms is the ellipsoid method developed for nonlinear programming by N Z Shor D B Yudin and A S Nemirovskii It was a great surprise when L G Khachiyan showed that this method can be adapted to solve linear programs in polynomial time thus solving an important open theoretical problem While the ellipsoid method has not proved to be competitive with the simplex method in practice it does have some features which make it particularly suited for the purposes of combinatorial optimization The second algorithm we discuss finds its roots in the classical geometry of numbers developed by Minkowski This method has had traditionally deep applications in number theory in particular in diophantine approximation **Topics in Matroid Theory** Leonidas S. Pitsoulis,2013-10-24 Topics in Matroid Theory provides a brief introduction to matroid theory with an emphasis on algorithmic consequences Matroid theory is at the heart of combinatorial optimization and has attracted various pioneers such as Edmonds Tutte Cunningham and Lawler among others Matroid theory encompasses matrices graphs and other combinatorial entities under a common solid algebraic framework thereby providing the analytical

tools to solve related difficult algorithmic problems The monograph contains a rigorous axiomatic definition of matroids along with other necessary concepts such as duality minors connectivity and representability as demonstrated in matrices graphs and transversals The author also presents a deep decomposition result in matroid theory that provides a structural characterization of graphic matroids and show how this can be extended to signed graphic matroids as well as the immediate algorithmic consequences

Combinatorial Optimization Vangelis Markakis,2014

Development of an Algorithm for the Taktline Layout of Synchronized Job Shop Production Antonia Fels,2019-03-11 In job shop production the change towards synchronized job shop production which is based on the concept of so called taktlines has been shown to enhance efficiency In this dissertation an algorithm for the taktline layout is developed following a multi objective approach The algorithm consists of two sequential discrete optimizations problems namely a modified Substring Cover Problem and a partitioning Cluster Analysis including a Multiple Sequence Alignment For an overall validation real world data from tool manufacturers are subject to the proposed algorithm

Combinatorial Optimization Mustafa Akgül,Horst W. Hamacher,Süleyman Tüfekci,2012-12-06 There have been significant developments in the theory and practice of combinatorial optimization in the last 15 years This progress has been evidenced by a continuously increasing number of international and local conferences books and papers in this area This book is also another contribution to this burgeoning area of operations research and optimization This volume contains the contributions of the participants of the recent NATO Advanced Study Institute New Frontiers in the Theory and Practice of Combinatorial Optimization which was held at the campus of Bilkent University in Ankara Turkey July 16 29 1990 In this conference we brought many prominent researchers and young and promising scientists together to discuss current and future trends in the theory and practice of combinatorial optimization The Bilkent campus was an excellent environment for such an undertaking Being outside of Ankara the capital of Turkey Bilkent University gave the participants a great opportunity for exchanging ideas and discussing new theories and applications without much distraction One of the primary goals of NATO ASIs is to bring together a group of scientists and research scientists primarily from the NATO countries for the dissemination of advanced scientific knowledge and the promotion of international contacts among scientists We believe that we accomplished this mission very successfully by bringing together 15 prominent lecturers and 45 promising young scientists from 12 countries in a university environment for 14 days of intense lectures presentations and discussions

Fundamental Discrete Structures V. Ravichandran,Atul Kumar Razdan,2025-03-02 This book serves as a core text in discrete mathematics It discusses topics such as symbolic logic enumerative combinatorics algebraic structures graph theory and related applications to computer science and other allied subjects The presentation of related concepts is suitable for sophomore junior and senior level undergraduate students Exercises provided at the end of each chapter are designed to help the reader have an active learning experience throughout the study

Calculus of Tolerances in Combinatorial Optimization Boris Goldengorin,Gerold Jäger,Panos M.

Pardalos, Marcel Turkensteen, 2016-09-05 This book focuses on the theory of calculus of tolerances and its applications to heuristics and exact algorithms for combinatorial optimization problems COPs A tolerance is the maximum perturbation of a single element value within an optimal solution while all other input data is unchanged This exposition specifically discusses tolerances for describing the structure and relationships among optimal solutions to combinatorial optimization problems Applications of tolerances for solving the symmetric asymmetric second order traveling salesman problems maximum weight independent set problem and different classes of vehicle routing problems are discussed in detail Numerous insightful examples and remarks help the reader master theoretical results and understand the framework of tolerance based algorithms and underlying concepts Aimed toward designers of efficient algorithms this book would benefit graduate students researchers and engineers in operations research computer science applied mathematics bioinformatics artificial intelligence and machine learning Theory and Applications of Models of Computation Min Li, Mingji Xia, Peng

Zhang, 2026-01-01 This book constitutes the proceedings of the 19th Annual Conference on Theory and Applications of Models of Computation TAMC 2025 which was held in Jinan China during September 19 21 2025 The 32 papers included in these proceedings were carefully reviewed and selected from 71 submissions They were organized in topical sections as follows Computational Complexity and Algorithms Models of Computation Logic and Proof Theory Algorithmic Game Theory Parallel and Distributed Computing Computational Geometry and Graph Theory Combinatorial Optimization Parameterized Algorithms Continuous Optimization and Lattice Optimization Discrete Mathematics and Graph Theory Dr. Jhade Srinivas, Mr. Shambhu Sharan Srivastava, Dr. P. Mahalakshmi, Dr. Sachin Kumar Agrawal, 2024-11-13 Discrete Mathematics and Graph Theory the foundational concepts and advanced topics of discrete mathematics and graph theory Designed for students and professionals in mathematics computer science and engineering it explores topics like logic set theory combinatorics graph algorithms and network flows The emphasizes problem solving rigorous proofs and real world applications making it an essential resource for mastering discrete structures and their role in computational and theoretical disciplines With clear explanations and numerous examples it bridges the gap between theory and practice effectively

Probability Theory and Combinatorial Optimization J. Michael Steele, 1997-01-01 An introduction to the state of the art of the probability theory most applicable to combinatorial optimization The questions that receive the most attention are those that deal with discrete optimization problems for points in Euclidean space such as the minimum spanning tree the traveling salesman tour and minimal length matchings **Bioinformatics** Andrzej Polanski, Marek Kimmel, 2007-04-19 This textbook presents mathematical models in bioinformatics and describes biological problems that inspire the computer science tools used to manage the enormous data sets involved The first part of the book covers mathematical and computational methods with practical applications presented in the second part The mathematical presentation avoids unnecessary formalism while remaining clear and precise The book closes with a thorough bibliography reaching from classic

research results to very recent findings This volume is suited for a senior undergraduate or graduate course on bioinformatics with a strong focus on mathematical and computer science background

Introduction to the Theory of Error-Correcting Codes Vera Pless, 1998-07-02 A complete introduction to the many mathematical tools used to solve practical problems in coding Mathematicians have been fascinated with the theory of error correcting codes since the publication of Shannon's classic papers fifty years ago With the proliferation of communications systems computers and digital audio devices that employ error correcting codes the theory has taken on practical importance in the solution of coding problems This solution process requires the use of a wide variety of mathematical tools and an understanding of how to find mathematical techniques to solve applied problems Introduction to the Theory of Error Correcting Codes Third Edition demonstrates this process and prepares students to cope with coding problems Like its predecessor which was awarded a three star rating by the Mathematical Association of America this updated and expanded edition gives readers a firm grasp of the timeless fundamentals of coding as well as the latest theoretical advances This new edition features A greater emphasis on nonlinear binary codes An exciting new discussion on the relationship between codes and combinatorial games Updated and expanded sections on the Vashamov Gilbert bound van Lint Wilson bound BCH codes and Reed Muller codes Expanded and updated problem sets Introduction to the Theory of Error Correcting Codes Third Edition is the ideal textbook for senior undergraduate and first year graduate courses on error correcting codes in mathematics computer science and electrical engineering

Combinatorial Algorithms Herbert S. Wilf, 1989-01-01 A survey of some of the work that has been done since the appearance of the second edition of Combinatorial Algorithms Topics include progress in Gray Codes listing of subsets of given size of a given universe listing rooted and free trees selecting free trees and unlabeled graphs uniformly at random and ranking and unranking problems on unlabeled trees

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