

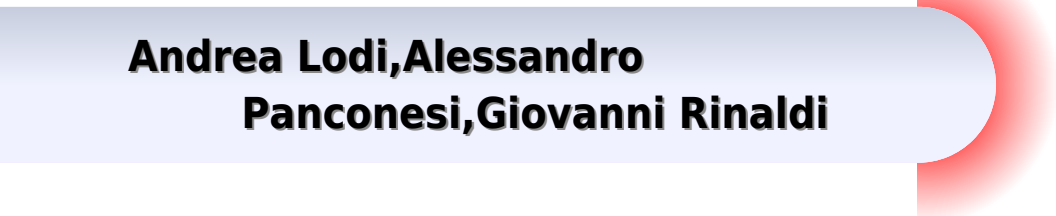
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Gems of Combinatorial Optimization and Graph Algorithms

 Springer

Gems Combinatorial Optimization Graph Algorithms

**Andrea Lodi, Alessandro
Panconesi, Giovanni Rinaldi**



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Handbook of Graph Theory, Combinatorial Optimization, and Algorithms Krishnaiyan "KT" Thulasiraman, Subramanian Arumugam, Andreas Brandstädt, Takao Nishizeki, 2016-01-05 The fusion between graph theory and combinatorial optimization has led to theoretically profound and practically useful algorithms yet there is no book that currently covers both areas together *Handbook of Graph Theory Combinatorial Optimization and Algorithms* is the first to present a unified comprehensive treatment of both graph theory and c *Graph-Theoretic Concepts in Computer Science* Andreas Brandstädt, Ekkehard Köhler, Klaus Meer, 2018-09-01 This book constitutes the revised selected papers of the 44th International Workshop on Graph Theoretic Concepts in Computer Science WG 2018 held in Cottbus Germany in June 2018 The 30 full papers presented in this volume were carefully reviewed and selected from 66 submissions They cover a wide range of areas aiming at connecting theory and applications by demonstrating how graph theoretic concepts can be applied in various areas of computer science Another focus is on presenting recent results and on identifying and exploring promising directions of future research

Business and Consumer Analytics: New Ideas Pablo Moscato, Natalie Jane de Vries, 2019-05-30 This two volume handbook presents a collection of novel methodologies with applications and illustrative examples in the areas of data driven computational social sciences Throughout this handbook the focus is kept specifically on business and consumer oriented applications with interesting sections ranging from clustering and network analysis meta analytics memetic algorithms machine learning recommender systems methodologies parallel pattern mining and data mining to specific applications in market segmentation travel fashion or entertainment analytics A must read for anyone in data analytics marketing behavior modelling and computational social science interested in the latest applications of new computer science methodologies The chapters are contributed by leading experts in the associated fields The chapters cover

technical aspects at different levels some of which are introductory and could be used for teaching Some chapters aim at building a common understanding of the methodologies and recent application areas including the introduction of new theoretical results in the complexity of core problems Business and marketing professionals may use the book to familiarize themselves with some important foundations of data science The work is a good starting point to establish an open dialogue of communication between professionals and researchers from different fields Together the two volumes present a number of different new directions in Business and Customer Analytics with an emphasis in personalization of services the development of new mathematical models and new algorithms heuristics and metaheuristics applied to the challenging problems in the field Sections of the book have introductory material to more specific and advanced themes in some of the chapters allowing the volumes to be used as an advanced textbook Clustering Proximity Graphs Pattern Mining Frequent Itemset Mining Feature Engineering Network and Community Detection Network based Recommending Systems and Visualization are some of the topics in the first volume Techniques on Memetic Algorithms and their applications to Business Analytics and Data Science are surveyed in the second volume applications in Team Orienteering Competitive Facility location and Visualization of Products and Consumers are also discussed The second volume also includes an introduction to Meta Analytics and to the application areas of Fashion and Travel Analytics Overall the two volume set helps to describe some fundamentals acts as a bridge between different disciplines and presents important results in a rapidly moving field combining powerful optimization techniques allied to new mathematical models critical for personalization of services Academics and professionals working in the area of business analytics data science operations research and marketing will find this handbook valuable as a reference Students studying these fields will find this handbook useful and helpful as a secondary textbook

WALCOM: Algorithms and Computation Shin-ichi Nakano, Mingyu Xiao, 2025-02-20 This book LNCS 15411 constitutes the refereed proceedings of the 19th International Conference and Workshops on Algorithms and Computation WALCOM 2025 held in Chengdu China during February 28 March 2 2025 The 26 full papers were carefully reviewed and selected from 68 submissions WALCOM 2025 covered a wide range of topics including approximation algorithms algorithmic graph theory and combinatorics algorithmic and combinatorial aspects of logic combinatorial algorithms combinatorial optimization combinatorial reconfiguration computational biology computational complexity computational geometry discrete geometry data structures experimental algorithm methodologies graph algorithms graph drawing parallel and distributed algorithms parameterized algorithms and complexity network optimization online algorithms randomized algorithms and string algorithms

Recent Advances in Soft Computing Radek Matoušek, 2017-05-20 This proceeding book contains a collection of selected accepted papers of the Mendel conference held in Brno Czech Republic in June 2016 The proceedings book contains three chapters which present recent advances in soft computing including intelligent image processing The Mendel conference was established in 1995 and is named after the scientist and Augustinian priest Gregor J Mendel who

discovered the famous Laws of Heredity The main aim of the conference is to create a regular possibility for students academics and researchers to exchange ideas and novel research methods on a yearly basis *Combinatorial Optimization and Applications* Weili Wu,Jianxiong Guo,2023-12-08 The two volume set LNCS 14461 and LNCS 14462 constitutes the refereed proceedings of the 17th International Conference on Combinatorial Optimization and Applications COCOA 2023 held in Hawaii HI USA during December 15 17 2023 The 73 full papers included in the proceedings were carefully reviewed and selected from 117 submissions They were organized in topical sections as follows Part I Optimization in graphs scheduling set related optimization applied optimization and algorithm Graph planer and others Part II Modeling and algorithms complexity and approximation combinatorics and computing optimization and algorithms extreme graph and others machine learning blockchain and others Combinatorial Optimization and Theoretical Computer Science Vangelis Th. Paschos,2010-01-05 This volume is dedicated to the theme Combinatorial Optimization Theoretical Computer Science Interfaces and Perspectives and has two main objectives the first is to show that bringing together operational research and theoretical computer science can yield useful results for a range of applications while the second is to demonstrate the quality and range of research conducted by the LAMSADE in these areas **Evolutionary Computation in Combinatorial Optimization** Francisco Chicano,Bin Hu,Pablo García-Sánchez,2016-03-15 This book constitutes the refereed proceedings of the 16th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2016 held in Porto Portugal in March April 2016 co located with the Evo 2015 events EuroGP EvoMUSART and EvoApplications The 17 revised full papers presented were carefully reviewed and selected from 44 submissions The papers cover methodology applications and theoretical studies The methods included evolutionary and memetic algorithms variable neighborhood search particle swarm optimization hyperheuristics mat heuristic and other adaptive approaches Applications included both traditional domains such as graph coloring vehicle routing the longest common subsequence problem the quadratic assignment problem and new er domains such as the traveling thief problem web service location and finding short addition chains The theoretical studies involved fitness landscape analysis local search and recombination operator analysis and the big valley search space hypothesis The consideration of multiple objectives dynamic and noisy environments was also present in a number of articles Integer Programming and Combinatorial Optimization Andrea Lodi,Alessandro Panconesi,Giovanni Rinaldi,2008-05-08 This book constitutes the refereed proceedings of the 13th International Conference on Integer Programming and Combinatorial Optimization IPCO 2008 held in Bertinoro Italy in May 2008 The 32 revised full papers presented were carefully reviewed and selected from 95 submissions The papers cover various aspects of integer programming and combinatorial optimization and present recent developments in theory computation and applications in that area Topics included are such as approximation algorithms branch and bound algorithms branch and cut algorithms computational biology computational complexity computational geometry cutting plane algorithms diophantine equations

geometry of numbers graph and network algorithms integer programming matroids and submodular functions on line algorithms and competitive analysis polyhedral combinatorics randomized algorithms random graphs scheduling theory and scheduling algorithms and semidefinite programs *Integer Programming and Combinatorial Optimization* Quentin Louveaux, Martin Skutella, 2016-05-25 This book constitutes the refereed proceedings of the 18th International Conference on Integer Programming and Combinatorial Optimization IPCO 2016 held in Liège Belgium in June 2016 The 33 full papers presented were carefully reviewed and selected from 125 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 *Combinatorial Algorithms* Veli Mäkinen, Simon J. Puglisi, Leena Salmela, 2016-08-08 This book constitutes the proceedings of the 27th International Workshop on Combinatorial Algorithms IWOCA 2016 held in Helsinki Finland in August 2016 The 35 papers presented in this volume were carefully reviewed and selected from 87 submissions They were organized in topical sessions named computational complexity computational geometry networks enumeration online algorithms algorithmic graph theory dynamic programming combinatorial algorithms graph algorithms combinatorics and probabilistics Combinatorial Optimization and Applications T-H. Hubert Chan, Minming Li, Lusheng Wang, 2016-11-30 This book constitutes the refereed proceedings of the 10th International Conference on Combinatorial Optimization and Applications COCOA 2016 held in Hong Kong China in December 2016 The 60 full papers included in the book were carefully reviewed and selected from 122 submissions The papers are organized in topical sections such as graph theory geometric optimization complexity and data structure combinatorial optimization and miscellaneous *Graph Databases* Christos Tjortjis, 2023-10-13 With social media producing such huge amounts of data the importance of gathering this rich data often called the digital gold rush processing it and retrieving information is vital This practical book combines various state of the art tools technologies and techniques to help us understand Social Media Analytics Data Mining and Graph Databases and how to better utilize their potential Graph Databases Applications on Social Media Analytics and Smart Cities reviews social media analytics with examples using real world data It describes data mining tools for optimal information retrieval how to crawl and mine data from Twitter and the advantages of Graph Databases The book is meant for students academicians developers and simple general users involved with Data Science and Graph Databases to understand the notions concepts techniques and tools necessary to extract data from social media which will aid in better information retrieval management and prediction **Treewidth, Kernels, and Algorithms** Fedor V. Fomin, Stefan Kratsch, Erik Jan van Leeuwen, 2020-04-20 This Festschrift was published in honor of Hans L Bodlaender on the occasion of his 60th birthday The 14 full and 5 short contributions included in this volume show

the many transformative discoveries made by H L Bodlaender in the areas of graph algorithms parameterized complexity kernelization and combinatorial games The papers are written by his former Ph D students and colleagues as well as by his former Ph D advisor Jan van Leeuwen Chapter Crossing Paths with Hans Bodlaender A Personal View on Cross Composition for Sparsification Lower Bounds is available open access under a Creative Commons Attribution 4 0 International License via link.springer.com

Fundamentals of Computation Theory Maciej Liskiewicz, Rüdiger Reischuk, 2005-08-04 This book constitutes the refereed proceedings of the 15th International Symposium Fundamentals of Computation Theory FCT 2005 held in L Beck Germany in August 2005 The 46 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 105 submissions The papers are organized in topical sections on circuits automata complexity approximability computational and structural complexity graphs and complexity computational game theory visual cryptography and computational geometry query complexity distributed systems automata and formal languages semantics approximation algorithms average case complexity algorithms graph algorithms and pattern matching

Computing and Combinatorics Chi-Yeh Chen, Wing-Kai Hon, Ling-Ju Hung, Chia-Wei Lee, 2021-10-21 This book constitutes the proceedings of the 27th International Conference on Computing and Combinatorics COCOON 2021 held in Tainan Taiwan in October 2021 Due to the COVID 19 pandemic COCOON 2021 was organized as a hybrid conference The 56 papers presented in this volume were carefully reviewed and selected from 131 submissions The papers are divided into the following topical sub headings algorithms approximation algorithms automata computational geometry fault tolerant computing and fault diagnosis graph algorithms graph theory and applications network and algorithms online algorithm and stream algorithms parameterized complexity and algorithms and recreational games

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

Contemporary Computing Manish Parashar, Dinesh Kaushik, Omer F. Rana, Ravi Samtaney, Yuanyuan Yang, Albert Y. Zomaya, 2012-08-10 This volume constitutes the refereed proceedings of the 5th International Conference on Contemporary Computing IC3 2010 held in Noida India in August 2011 The 42 revised full papers presented together with 7

short papers were carefully reviewed and selected from 162 submissions The papers are organized in topical sections on algorithm applications systems hardware and software biomedical informations poster papers **Combinatorial**

Algorithms Adele Anna Rescigno,Ugo Vaccaro,2024-06-21 This book constitutes the refereed proceedings of the 35th International Workshop on Combinatorial Algorithms IWOCA 2024 held in Ischia Italy during July 1 3 2024 The 40 full papers included in this book were carefully reviewed and selected from 110 submissions The IWOCA conference series has provided an annual forum for researchers who design algorithms to address the myriad combinatorial problems underlying computer applications in science engineering and business

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