

1. Record Nr.	UNISA996418215903316
Titolo	Integer Programming and Combinatorial Optimization [[electronic resource]] : 21st International Conference, IPCO 2020, London, UK, June 8–10, 2020, Proceedings / / edited by Daniel Bienstock, Giacomo Zambelli
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-45771-0
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (x, 450 pages) : illustrations
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 12125
Disciplina	519.77
Soggetti	Computer science—Mathematics Data structures (Computer science) Information theory Computer engineering Computer networks Database management Mathematics of Computing Data Structures and Information Theory Computer Engineering and Networks Database Management System
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Idealness of k-wise intersecting families -- Flexible Graph Connectivity: Approximating Network Design Problems Between 1- and 2-connectivity -- Faster Algorithms for Parametric Global Minimum Cut Problems -- Optimizing Sparsity over Lattices and Semigroups -- A Technique for Obtaining True Approximations for k-Center with Covering Constraints -- Tight Approximation Bounds for Maximum Multi-Coverage -- Implementing automatic Benders decomposition in a modern MIP solver -- Improved Approximation Algorithms for Inventory Problems -- Extended Formulations for Stable Set Polytopes of Graphs Without Two Disjoint Odd Cycles -- On a generalization of

the Chvátal-Gomory closure -- Algorithms for flows over time with scheduling costs -- Integer Plane Multi-flow Maximisation: Flow-Cut Gap and One-Quarter-Approximation -- Stochastic Makespan Minimization in Structured Set Systems -- Continuous facility location on graphs -- Recognizing even-cycle and even-cut matroids -- A combinatorial algorithm for computing the rank of a generic partitioned matrix with $2n \times 2n$ submatrices -- Fair Colorful k -Center Clustering -- Popular Branchings and Their Dual Certificates -- Sparse graphs and an augmentation problem -- About the Complexity of Two-Stage Stochastic IPs -- Packing under Convex Quadratic Constraints -- Weighted Triangle-free 2-matching Problem with Edge-disjoint Forbidden Triangles -- Single source unsplittable flows with arc-wise lower and upper bounds -- Maximal quadratic-free sets -- On Generalized Surrogate Duality in Mixed-Integer Nonlinear Programming -- Andrea Lodi and Felipe Serrano -- The integrality number of an integer program -- Persistency of Linear Programming Relaxations for the Stable Set Problem -- Constructing lattice-free gradient polyhedra in dimension two -- Sequence independent lifting for the set of submodular maximization problem -- A Fast $(2 + 2/7)$ -Approximation Algorithm for Capacitated Cycle Covering -- Graph Coloring Lower Bounds from Decision Diagrams -- On convex hulls of epigraphs of QCQPs -- On the convexification of constrained quadratic optimization problems with indicator variables.

Sommario/riassunto

This book constitutes the refereed proceedings of the 21st International Conference on Integer Programming and Combinatorial Optimization, IPCO 2020, held in London, UK, in June 2020. The 33 full versions of extended abstracts presented were carefully reviewed and selected from 126 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.