

1. Record Nr.	UNINA9910483927303321
Titolo	Integer Programming and Combinatorial Optimization : 13th International Conference, IPCO 2008 Bertinoro, Italy, May 26-28, 2008 Proceedings / / edited by Andrea Lodi, Alessandro Panconesi, Giovanni Rinaldi
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2008
ISBN	3-540-68891-9
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (XI, 477 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5035
Altri autori (Persone)	LodiAndrea PanconesiAlessandro RinaldiGiovanni
Disciplina	519.7/7
Soggetti	Computer science - Mathematics Discrete mathematics Numerical analysis Algorithms Computer graphics Discrete Mathematics in Computer Science Numerical Analysis Computer Graphics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Session 1 -- Perspective Relaxation of Mixed Integer Nonlinear Programs with Indicator Variables -- Disjunctive Cuts for Non-convex Mixed Integer Quadratically Constrained Programs -- The Air Traffic Flow Management Problem: An Integer Optimization Approach -- Session 2 -- The Induced Disjoint Paths Problem -- A Weighted K t,t - Free t-Factor Algorithm for Bipartite Graphs -- A New Algorithm for the Maximum Weighted Stable Set Problem in Claw-Free Graphs -- A Polynomial Algorithm for Weighted Abstract Flow -- Session 3 -- A Comparative Study of Linear and Semidefinite Branch-and-Cut Methods for Solving the Minimum Graph Bisection Problem -- Binary Positive Semidefinite Matrices and Associated Integer Polytopes -- Vertex Cover

Resists SDPs Tightened by Local Hypermetric Inequalities -- Session 4
 -- Tight Bounds for Permutation Flow Shop Scheduling -- The
 Stochastic Machine Replenishment Problem -- A Polynomial Time
 Approximation Scheme for the Square Packing Problem -- Session 5 --
 Modeling Disjunctive Constraints with a Logarithmic Number of Binary
 Variables and Constraints -- Computing with Multi-row Gomory Cuts
 -- Constraint Orbital Branching -- Session 6 -- A Fast, Simpler
 Algorithm for the Matroid Parity Problem -- Degree Bounded Matroids
 and Submodular Flows -- Budgeted Matching and Budgeted Matroid
 Intersection Via the Gasoline Puzzle -- Session 7 -- Primal-Dual
 Schema for Capacitated Covering Problems -- Offline and Online
 Facility Leasing -- Importance Sampling via Load-Balanced Facility
 Location -- Session 8 -- A Constant Approximation Algorithm for the a
 priori Traveling Salesman Problem -- New Geometry-Inspired
 Relaxations and Algorithms for the Metric Steiner Tree Problem -- Min
 Sum Edge Coloring in Multigraphs Via Configuration LP -- Session 9 --
 An Improved Algorithm for Finding Cycles Through Elements -- The
 Stable Roommates Problem with Choice Functions -- A New Approach
 to Splitting-Off -- Session 10 -- Can Pure Cutting Plane Algorithms
 Work? -- The Mixing Set with Divisible Capacities -- A Polynomial Time
 Algorithm for the Stochastic Uncapacitated Lot-Sizing Problem with
 Backlogging -- Lifting Integer Variables in Minimal Inequalities
 Corresponding to Lattice-Free Triangles.

Sommario/riassunto

The volume contains the papers selected for presentation at IPCO 2008, the 13th International Conference on Integer Programming and Combinatorial Optimization that was held in Bertinoro (Italy), May 26–28, 2008. The IPCO series of conferences, sponsored by the Mathematical Programming Society, highlights recent developments in theory, computation, and application of integer programming and combinatorial optimization. The first conference took place in 1990; starting from IPCO 1995, the proceedings are published in the Lecture Notes in Computer Science series. The 12 previous IPCO conferences were held in Waterloo (Canada) 1990, Pittsburgh (USA) 1992, Erice (Italy) 1993, Copenhagen (Denmark) 1995 [LNCS 920], Vancouver (Canada) 1996 [LNCS 1084], Houston (USA) 1998 [LNCS 1412], Graz (Austria) 1999 [LNCS 1610], Utrecht (The Netherlands) 2001 [LNCS 2081], Boston (USA) 2002 [LNCS 2337], New York (USA) 2004 [LNCS 2986], Berlin (Germany) 2005 [LNCS 3509], and Ithaca (USA) 2007 [LNCS 4168]. The conference is not held in the years when the International Symposium of the Mathematical Programming Society takes place.