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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
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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.
