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fixed dimension; References

Chapter 5 Primal Integer Programming1 Introduction; 2 Efficient primal algorithms; 3 Irreducibility and integral generating sets; 4 General integer programming algorithms; 5 Combinatorial optimization; References; Chapter 6 Balanced Matrices; 1 Introduction; 2 Integral polytopes; 3 Bicoloring; 4 Total dual integrality; 5 k-Balanced matrices; 6 Perfection and idealness; 7 Propositional logic; 8 Nonlinear 0, 1 optimization; 9 Balanced hypergraphs; 10 Bipartite representation; 11 Totally balanced 0,1 matrices; 12 Signing 0, 1 matrices; 13 Truemper's theorem; 14 Decomposition theorem

15 Recognition algorithm16 More decomposition theorems; 17 Some conjectures and open questions; References; Chapter 7 Submodular Function Minimization; 1 Introduction; 2 Building blocks for SFM algorithms; 3 The SFM algorithms; 4 Comparing and contrasting the algorithms; 5 Solvable extensions of SFM; 6 Future directions for SFM algorithms; References; Chapter 8 Semide.nite Programming and Integer Programming; 1 Introduction; 2 Semidefinite programming: duality, algorithms, complexity, and geometry; 3 Semidefinite programming and integer 0/1 programming

4 Semidefinite relaxation for the maximum stable set problem5 Semidefinite relaxation for the max-cut problem; 6 Applications of semidefinite programming and the rounding hyperplane technique to other combinatorial optimization problems; 7 Further Topics; 8 Semidefinite programming and the quadratic assignment problem; 9 Epilogue: semidefinite programming and algebraic connectivity; 10 Appendix: surveys, books and software; References; Chapter 9 Algorithms for Stochastic Mixed-Integer Programming Models; 1 Introduction; 2 Preliminaries for decomposition algorithms

3 Decomposition algorithms for two-stage SMIP: stagewise decomposition

Sommario/riassunto

The chapters of this Handbook volume covers nine main topics that are representative of recenttheoretical and algorithmic developments in the field. In addition to the nine papers that present the state of the art, there is an article onthe early history of the field. The handbook will be a useful reference to experts in the field as well as students and others who want to learn about discrete optimization. All of the chapters in this handbook are written by authors who have made significant original contributions to their topics. Herewith a brief introduction to the chapte