Table of Contents

Two $O(\log^* k)$-Approximation Algorithms for the Asymmetric $k-$Center Problem 1
A. Archer

Strongly Polynomial Algorithms for the Unsplittable Flow Problem 15
Y. Azar, O. Regev

Edge Covers of Setpairs and the Iterative Rounding Method 30
J. Cheriyan, S. Vempala

The Asymptotic Performance Ratio of an On-Line Algorithm for Uniform Parallel Machine Scheduling with Release Dates 45
C.-F.M. Chou, M. Queyranne, D. Simchi-Levi

Approximate k-MSTs and k-Steiner Trees via the Primal-Dual Method and Lagrangean Relaxation 60
F.A. Chudak, T. Roughgarden, D.P. Williamson

On the Rank of Mixed 0,1 Polyhedra 71
G. Cornuéjols, Y. Li

Fast 2-Variable Integer Programming 78
F. Eisenbrand, G. Rote

Approximating k-Spanner Problems for $k > 2$ 90
M. Elkin, D. Peleg

A Matroid Generalization of the Stable Matching Polytope 105
T. Fleiner

A 2-Approximation for Minimum Cost $\{0, 1, 2\}$ Vertex Connectivity 115
L. Fleischer

Combined Connectivity Augmentation and Orientation Problems 130
A. Frank, T. Király

An Extension of a Theorem of Henneberg and Laman 145
A. Frank, L. Szegő

Bisubmodular Function Minimization 160
S. Fujishige, S. Iwata

On the Integrality Gap of a Natural Formulation of the Single-Sink Buy-at-Bulk Network Design Problem 170
N. Garg, R. Khandekar, G. Konjevod, R. Ravi, F.S. Salman, A. Sinha

Circuit Mengerian Directed Graphs 185
B. Guenin

Integral Polyhedra Related to Even Cycle and Even Cut Matroids 196
B. Guenin

A Unified Framework for Obtaining Improved Approximation Algorithms for Maximum Graph Bisection Problems 210
E. Halperin, U. Zwick

Synthesis of 2-Commodity Flow Networks 226
R. Hassin, A. Levin

Bounds for Deterministic Periodic Routing Sequences 236
A. Hordijk, D.A. van der Laan

Cutting Planes for Mixed 0-1 Semidefinite Programs 251
G. Iyengar, M.T. Çezik

Independence Free Graphs and Vertex Connectivity Augmentation 264
B. Jackson, T. Jordán

The Throughput of Sequential Testing 280
M.S. Kodialam

An Explicit Exact SDP Relaxation for Nonlinear 0-1 Programs 293
J.B. Lasserre

Pruning by Isomorphism in Branch-and-Cut 304
F. Margot

Facets, Algorithms, and Polyhedral Characterizations for a Multi-item Production Planning Model with Setup Times 318
A.J. Miller, G.L. Nemhauser, M.W.P. Savelsbergh

Fences Are Futile: On Relaxations for the Linear Ordering Problem 333
A. Newman, S. Vempala

Generating Cuts from Multiple-Term Disjunctions 348
M. Perregaard, E. Balas

A $(2+\varepsilon)$-Approximation Algorithm for Generalized Preemptive Open Shop Problem with Minsum Objective 361
M. Queyranne, M. Sviridenko

Performance Guarantees of Local Search for Multiprocessor Scheduling . . . 370
P. Schuurman, T. Vredeveld

Connected Joins in Graphs 383
A. Sebő, E. Tannier

Two NP-Hardness Results for Preemptive Minsum Scheduling of Unrelated Parallel Machines 396
R. Sitters

Approximation Algorithms for the Minimum Bends Traveling Salesman Problem 406
C. Stein, D.P. Wagner

Author Index 423

http://www.springer.com/978-3-540-42225-9

Integer Programming and Combinatorial Optimization
8th International IPCO Conference, Utrecht, The Netherlands, June 13-15, 2001. Proceedings
Aardal, K.; Gerards, B. (Eds.)
2001, XII, 428 p., Softcover
ISBN: 978-3-540-42225-9