

Contents

Maximum Throughput Network Routing Subject to Fair Flow Allocation . . .	1
<i>Edoardo Amaldi, Stefano Coniglio, and Leonardo Taccari</i>	
Study of Identifying Code Polyhedra for Some Families of Split Graphs. . .	13
<i>Gabriela Argiroffo, Silvia Bianchi, and Annegret Wagler</i>	
Parametric Multiroute Flow and Its Application to Robust Network with k Edge Failures	26
<i>Jean-François Baffier, Vorapong Supakitpaisarn, Hidefumi Hiraishi, and Hiroshi Imai</i>	
The Dominating Set Polytope via Facility Location	38
<i>Mourad Baïou and Francisco Barahona</i>	
Solving Graph Partitioning Problems Arising in Tagless Cache Management . . .	50
<i>Sandro Bartolini, Iacopo Casini, and Paolo Detti</i>	
Lagrangian Decomposition for Mean-Variance Combinatorial Optimization . . .	62
<i>Frank Baumann, Christoph Buchheim, and Anna Ilyina</i>	
Maximum Generalized Assignment with Convex Costs	75
<i>Marco Bender and Stephan Westphal</i>	
An Integer Programming Formulation for the Maximum k -Subset Intersection Problem	87
<i>Eduardo T. Bogue, Cid C. de Souza, Eduardo C. Xavier, and Alexandre S. Freire</i>	
b -Coloring is NP-Hard on Co-Bipartite Graphs and Polytime Solvable on Tree-Cographs	100
<i>Flavia Bonomo, Oliver Schaudt, Maya Stein, and Mario Valencia-Pabon</i>	
Proactive Reactive Scheduling in Resource Constrained Projects with Flexibility and Quality Robustness Requirements	112
<i>Mario Brčić, Damir Kalpić, and Marija Katić</i>	
Active Set Methods with Reoptimization for Convex Quadratic Integer Programming	125
<i>Christoph Buchheim and Long Trieu</i>	
Fixed-Parameter Algorithms for Scaffold Filling	137
<i>Laurent Bulteau, Anna Paola Carrieri, and Riccardo Dondi</i>	

Finding Totally Independent Spanning Trees with Linear Integer Programming.	149
<i>Alexandre Salles da Cunha and Fernanda Sumika Hojo de Souza</i>	
Coupled-Tasks in Presence of Bipartite Compatibilities Graphs	161
<i>Benoit Darties, Gilles Simonin, Rodolphe Giroudeau, and Jean-Claude König</i>	
The Computational Complexity of Stochastic Optimization	173
<i>Cassio Polpo de Campos, Georgios Stamoulis, and Dennis Weyland</i>	
A Hybrid Heuristic Approach Based on a Quadratic Knapsack Formulation for the Max-Mean Dispersion Problem	186
<i>Federico Della Croce, Michele Garraffa, and Fabio Salassa</i>	
A Constraint Generation Approach for the Two-Machine Flow Shop Problem with Jobs Selection	198
<i>Federico Della Croce, Christos Koulamas, and Vincent T'kindt</i>	
Rectilinear Shortest Path and Rectilinear Minimum Spanning Tree with Neighborhoods.	208
<i>Yann Disser, Matúš Mihalák, Sandro Montanari, and Peter Widmayer</i>	
Lovász and Schrijver N_+ -Relaxation on Web Graphs	221
<i>Mariana Escalante and Graciela Nasini</i>	
The Envy-Free Pricing Problem and Unit-Demand Markets.	230
<i>Cristina G. Fernandes, Carlos E. Ferreira, Álvaro J.P. Franco, and Rafael C.S. Schouery</i>	
Mathematical Programming Models for Traffic Engineering in Ethernet Networks Implementing the Multiple Spanning Tree Protocol	242
<i>Bernard Fortz, Luís Gouveia, and Martim Moniz</i>	
Graph Compact Orthogonal Layout Algorithm.	255
<i>Kārlis Freivalds and Jans Glagoļevs</i>	
State Space Reduced Dynamic Programming for the Aircraft Sequencing Problem with Constrained Position Shifting.	267
<i>Fabio Furini, Martin Philip Kidd, Carlo Alfredo Persiani, and Paolo Toth</i>	
Decomposition Algorithm for the Single Machine Scheduling Polytope	280
<i>Ruben Hoeksma, Bodo Manthey, and Marc Uetz</i>	
Subexponential Fixed-Parameter Algorithms for Partial Vector Domination . . .	292
<i>Toshimasa Ishii, Hirotaka Ono, and Yushi Uno</i>	

Efficient Approximation Schemes for the Maximum Lateness Minimization on a Single Machine with a Fixed Operator or Machine Non-Availability Interval 305
Imed Kacem, Hans Kellerer, and Maryam Seifaddini

A Multi-period Bi-level Stochastic Programming with Decision Dependent Uncertainty in Supply Chains 315
Yohanes Kristianto

$\{k\}$ -Packing Functions of Graphs 325
Valeria Alejandra Leoni and Erica G. Hinrichsen

Robust Shift Scheduling in Call Centers 336
Sara Mattia, Fabrizio Rossi, Mara Servilio, and Stefano Smriglio

A Tabu Search Heuristic for the Equitable Coloring Problem 347
Isabel Méndez Díaz, Graciela Nasini, and Daniel Severín

Linear Arrangement Problems and Interval Graphs 359
Alain Quilliot and Djamel Rebaine

On the Asymmetric Connected Facility Location Polytope 371
Markus Leitner, Ivana Ljubić, Juan-José Salazar-González, and Markus Sinnl

Heuristic Approaches for the Robust Vehicle Routing Problem 384
Elyn L. Solano-Charris, Christian Prins, and Andréa Cynthia Santos

A Fast Large Neighborhood Search for Disjunctively Constrained Knapsack Problems 396
Mhand Hifi, Sagvan Saleh, and Lei Wu

Approximating the k -Set Packing Problem by Local Improvements 408
Martin Fürer and Huiwen Yu

Multi-Objective Cuckoo Search with Leader Selection Strategies 421
Kamel Zeltni and Souham Meshoul

Vulnerability Assessment of Spatial Networks: Models and Solutions 433
Eduardo Álvarez-Miranda, Alfredo Candia-Véjar, Emilio Carrizosa, and Francisco Pérez-Galarce

Author Index 445



<http://www.springer.com/978-3-319-09173-0>

Combinatorial Optimization

Third International Symposium, ISCO 2014, Lisbon,
Portugal, March 5-7, 2014, Revised Selected Papers
Fouilhoux, P.; Gouveia, E.N.; Mahjoub, A.R.; Paschos,
V.T. (Eds.)

2014, XIX, 446 p. 56 illus., Softcover

ISBN: 978-3-319-09173-0