
Contents

Preface	vii
List of Contributors	xv
1 On the Location and p-Median Polytopes <i>Mourad Baïou, Francisco Barahona</i>	1
2 Facet Generating Techniques <i>Sylvia Boyd, William R. Pulleyblank</i>	33
3 Antimatroids, Betweenness, Convexity <i>Vašek Chvátal</i>	57
4 Euler Complexes <i>Jack Edmonds</i>	65
5 Strongly Polynomial Algorithm for the Intersection of a Line with a Polymatroid <i>Jean Fonlupt, Alexandre Skoda</i>	69
6 A Survey on Covering Supermodular Functions <i>András Frank, Tamás Király</i>	87
7 Theory of Principal Partitions Revisited <i>Satoru Fujishige</i>	127
8 Locally Dense Independent Sets in Regular Graphs of Large Girth—An Example of a New Approach <i>Frank Göring, Jochen Harant, Dieter Rautenkabach, Ingo Schiermeyer</i>	163

9	Linear Time Approximation Algorithms for Degree Constrained Subgraph Problems	
	<i>Stefan Hougardy</i>	185
10	The Unbounded Knapsack Problem	
	<i>T.C. Hu, Leo Landa, Man-Tak Shing</i>	201
11	Recent Developments in Discrete Convex Analysis	
	<i>Kazuo Murota</i>	219
12	Multiflow Feasibility: An Annotated Tableau	
	<i>Guytslain Naves, András Sebő</i>	261
13	Many Facets of Dualities	
	<i>Jaroslav Nešetřil</i>	285
14	On the Structure of Graphs Vertex Critical with Respect to Connected Domination	
	<i>Michael D. Plummer</i>	303
15	LS-LIB: A Library of Tools for Solving Production Planning Problems	
	<i>Yves Pochet, Mathieu Van Vyve, Laurence A. Wolsey</i>	317
16	From Spheres to Spheropolyhedra: Generalized Distinct Element Methodology and Algorithm Analysis	
	<i>Lionel Pournin, Thomas M. Liebling</i>	347
17	Graphic Submodular Function Minimization: A Graphic Approach and Applications	
	<i>Myriam Preissmann, András Sebő</i>	365
18	Matroids—the Engineers’ Revenge	
	<i>András Recski</i>	387
19	On the Relative Complexity of 15 Problems Related to 0/1-Integer Programming	
	<i>Andreas S. Schulz</i>	399
20	Single-Sink Multicommodity Flow with Side Constraints	
	<i>F. Bruce Shepherd</i>	429
21	An Introduction to Network Flows over Time	
	<i>Martin Skutella</i>	451
22	Edge-Connectivity Augmentations of Graphs and Hypergraphs	
	<i>Zoltán Szigeti</i>	483

23 Some Problems on Approximate Counting in Graphs and Matroids	
<i>Dominic Welsh</i>	523
Subject Index	545
Author Index	553