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	Nota di contenuto	Martin Grötschel - a tribute: M.Jünger and G.Reinelt Facets and rank of integer polyhedra: M.Padberg Constructing extended formulations from reflection relations: V.Kaibel and K.Pashkovich Exact algorithms for combinatorial optimization problems with submodular objective functions: F.Baumann, S.Berckey, and C.Buchheim Solving k-way graph partitioning problems to optimality: The impact of semidefinite relaxations and the bundle method: M.F. Anjos, B. Ghaddar, L.Hupp, F.Liers and A.Wiegele Mirror-descent methods in mixed-integer convex optimization: M.Baes, T.Oertel, Ch.Wagner and R.Weismantel On perspective functions and vanishing constraints in mixed-integer nonlinear optimal control: M.Jung, Ch.Kirches, and S. Sager Beyond perfection: computational results for superclasses: A. Pecher and A.Wagler Algorithms for junctions in acyclic graphs: C.E. Ferreira and A.J.P. Franco A primal heuristic for nonsmooth mixed integer nonlinear optimization: M.Schmidt, M.C. Steinbach, and B.M. Willert Flow-Over-Flow Models and an Application to the Scheduling and Routing of Fly-in Safari Planes: A.Fügenschuh, G.Nemhauser, and Y.Zeng How Many Steiner Terminals Can You Connect in 20 Years?: R.Borndörfer, N D.Hoang, M.Karbstein, Th.Koch, and A. Martin Robust heaviest connected subgraphs in networks: E.Alvarez Miranda, I.Ljubic, and P.Mutzel Algorithms for scheduling sensors to maximize coverage time: R.da Ponte Barbosa and Y.Wakabayashi

From vertex-telecenters to s	Subtree-telecenters: Z.Win and C.Kyi Than
A new algorithm for MINL	P applied to gas transport energy cost
minimization: B.Geißler, A.M	Morsi and L.Schewe Progress in academic
computational integer progr	amming: Th.Koch, A.Martin, and M.E.
Pfetsch Mixed Integer Pro	ogramming: Analyzing 12 Years of Progress:
T.Achterberg and R.Wunde	rling.
Sommario/riassunto Martin Grötschel is one of th time. He has received nume positions in the international his 65th birthday on Septem descendant tree 1983–2012 children, 74 grandchildren, 2 grandchildren, a total of 139 with a personal tribute to Ma contribution by his very spee "Facets and Rank of Integer descendant tree 1983–2012 contains 16 contributions, e doctoral descendant. The s contributions to the theory of polyhedral combinatorics, e convex optimization, supero algorithms for subtree-teleco preemptive restricted strip of of non-preemptive restricted strip of of non-preemptive restricted strip of of non-preemptive restricted strip of of non-preemptive function nonlinear optimization probil design, systems biology, wit optimization, and gas netwo include a semidefinite brand problem, mixed-integer non linear optimization for sched planes. The two closing art in general mixed-integer line working in industry, the seco These articles reflect the "so	he most influential mathematicians of our prous honors and holds a number of key mathematical community. He celebrated aber 10, 2013. Martin Grötschel's doctoral 2, i.e., the first 30 years, features 39 24 great-grandchildren, and 2 great-great- doctoral descendants. This book starts artin Grötschel by the editors (Part I), a cial "predecessor" Manfred Padberg on Polyhedra" (Part II), and the doctoral 2 (Part III). The core of this book (Part IV) ach of which is coauthored by at least one equence of the articles starts with f mathematical optimization, including xtended formulations, mixed-integer lasses of perfect graphs, efficient enters, junctions in acyclic graphs, and overing, as well as efficient approximation I strip covering. Combinations of new porthms and experiments deal with network prial optimization problems with ons, and more general mixed-integer ems. Applications include VLSI layout reless network design, mean-risk rk optimization. Computational studies th and cut approach for the max k-cut linear optimal control, and mixed-integer fulling and routing of fly-in safari icles are devoted to computational advances ear optimization, the first by scientists ond by scientists working in academia. cientific facets" of Martin Grötschel who has