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	Nota di contenuto	Polyhedra and Algorithms -- New classes of facets for complementarity knapsack problems -- Branch-and-Cut for a 2-Commodity Flow Relocation Model with Time Constraints -- The Constrained-Routing and Spectrum Assignment Problem: Valid Inequalities and Branch-and-Cut Algorithm -- Polyhedra and Combinatorics -- Top-k List Aggregation: Mathematical Formulations and Polyhedral Comparisons

-- Bounded variation in binary sequences -- On Minimally Non-Firm Binary Matrices -- Few Induced Disjoint Paths for H-Free Graphs -- On Permuting some Coordinates of Polytopes -- Non-linear Optimization -- Piecewise linearization of bivariate nonlinear functions: minimizing the number of pieces under a bounded approximation error -- An outer-approximation algorithm for maximum-entropy sampling -- Mitigating Anomalies in Parallel Branch-and-Bound Based Algorithms for Mixed-Integer Nonlinear Optimization -- Game Theory -- Exact Price of Anarchy for Weighted Congestion Games with Two Players.- Nash balanced assignment problem -- Graphs and Trees -- On the thinness of trees -- Generating Spanning Tree Sequences of a Fan Graph in Lexicographic Order and Ranking/Unranking Algorithms -- Cutting and Packing -- High Multiplicity Strip Packing with Three Rectangle Types -- Improved Bounds for Stochastic Extensible Bin Packing under Distributional Assumptions -- Applications -- One transfer per patient suffices: Structural insights about patient-to-room assignment -- Tool switching problems in the context of overlay printing with multiple colours -- Optimal Vaccination Strategies for Multiple Dose Vaccinations -- Approximation Algorithms -- Pervasive Domination -- Unified Greedy Approximability Beyond Submodular Maximization -- Neighborhood persistency of the linear optimization relaxation of integer linear optimization -- Polynomial-Time Approximation Schemes for a Class of Integrated Network Design and Scheduling Problems with Parallel Identical Machines.

Sommario/riassunto	This book constitutes thoroughly refereed and revised selected papers from the 7th International Symposium on Combinatorial Optimization, ISCO 2022, which was held online during May 18–20, 2022. The 24 full papers included in this book were carefully reviewed and selected from 50 submissions. They were organized in topical sections as follows: Polyhedra and algorithms; polyhedra and combinatorics; non-linear optimization; game theory; graphs and trees; cutting and packing; applications; and approximation algorithms.