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Barbara M. Anthony and Alison M. Marr, Directed Zagreb Indices -- F. Couto et al., Edge Tree Spanners -- S. Khalife, Sequence graphs: characterization and counting of admissible elements -- L. Burahem Martins et al., On solving the time window assignment vehicle routing problem via iterated local search -- M. Barbato et al., Synchronized Pickup and Delivery Problems with Connecting FIFO Stack -- A. Teymourifar et al., A Comparison Between Simultaneous and Hierarchical Approaches to Solve a Multi-Objective Location-Routing Problem -- M. Bodirsky et al., Piecewise Linear Valued Constraint Satisfaction Problems with Fixed Number of Variables -- M. Cacciola et al., A Lagrangian approach to Chance Constrained Routing with Local Broadcast -- P. Detti et al., A metaheuristic approach for biological sample transportation in healthcare -- Diego M. Pinto and G. Stecca, Optimal Planning of Waste Sorting Operations through Mixed Integer Linear Programming -- G. Micheli et al., Selecting and Initializing Representative Days for Generation and Transmission Expansion Planning with High Shares of Renewables -- T. Bacci et al., Start-up/Shut-down MINLP formulations for the Unit Commitment with Ramp Constraints -- J. Lee et al., Gaining or Losing Perspective for Piecewise-Linear Under-Estimators of Convex Univariate Functions -- M. Aprile et al., Recognizing Cartesian products of matrices and polytopes -- A. Frank, Special subclass of Generalized Semi-Markov Decision Processes with discrete time -- R. Seccia et al., Coupling Machine Learning and Integer Programming for Optimal TV Promo Scheduling -- F. Mendoza-Granada and M. Villagra, A Distributed Algorithm for Spectral Sparsication of Graphs with Applications to Data Clustering.

Sommario/riassunto	This book highlights new and original contributions on Graph Theory and Combinatorial Optimization both from the theoretical point of view and from applications in all fields. The book chapters describe models and methods based on graphs, structural properties, discrete optimization, network optimization, mixed-integer programming, heuristics, meta-heuristics, math-heuristics, and exact methods as well as applications. The book collects selected contributions from the CTW2020 international conference (18th Cologne-Twente Workshop on Graphs and Combinatorial Optimization), held online on September 14-16, 2020. The conference was organized by IASI-CNR with the contribution of University of Roma Tre, University Roma Tor Vergata, and CNRS-LIX and with the support of AIRO. It is addressed to researchers, PhD students, and practitioners in the fields of Graph Theory, Discrete Mathematics, Combinatorial Optimization, and Operations Research.