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Nota di contenuto	On Dispersable Book Embeddings -- Characterising AT-free Graphs with BFS -- Edge Partitions of Optimal 2-plane and 3-plane Graphs -- On Minimum Connecting Transition Sets in Graphs -- Recognizing Hyperelliptic Graphs in Polynomial Time -- On Directed Feedback Vertex Set Parameterized by Treewidth -- Optimality Program in Segment and String Graphs -- Anagram-Free Chromatic Number is Not Pathwidth-Bounded -- Tight Lower Bounds for the Number of st-Cuts -- Sub-exponential-Time and FPT Algorithms for Embedded Flat Clustered Planarity -- Computing Small Pivot-Minors -- Saving Probe Bits by Cube Domination -- Graph Amalgamation under Logical

Constraints -- Optimal General Matchings -- Quasimonotone Graphs -- Equiangular Polygon Contact Representations -- Temporal Graph Classes: A View Through Temporal Separators -- Covering A Graph with Nontrivial Vertex-disjoint Paths: Existence and Optimization -- On the Relation of Strong Triadic Closure and Cluster Deletion -- On Perfect Linegraph Squares -- On Weak Isomorphism of Rooted Vertex-Colored Graphs -- Connected Vertex Cover for (sP_1+P_5)-Free Graphs -- Structurally Parameterized d-Scattered Set -- Popular Matchings of Desired Size -- Convexity-Increasing Morphs of Planar Graphs -- Treedepth Bounds in Linear Colorings -- An Improved FPT lgorithm for Independent Feedback Vertex Set -- Construction and Local Routing for Angle-Monotone Graphs -- Characterization and Recognition of Tree 3-Spanner dmissible Directed Path Graphs of Diameter Three. .

Sommario/riassunto

This book constitutes the revised selected papers of the 44th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2018, held in Cottbus, Germany, in June 2018. The 30 full papers presented in this volume were carefully reviewed and selected from 66 submissions. They cover a wide range of areas, aiming at connecting theory and applications by demonstrating how graph-theoretic concepts can be applied in various areas of computer science. Another focus is on presenting recent results and on identifying and exploring promising directions of future research.