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Soggetti	Data structures (Computer science) Information theory Algorithms Computer engineering Computer networks Computer science—Mathematics Discrete mathematics Computer graphics Data Structures and Information Theory Design and Analysis of Algorithms Computer Engineering and Networks Symbolic and Algebraic Manipulation Discrete Mathematics in Computer Science Computer Graphics
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Nota di contenuto	Geometric Spanning Trees Minimizing the Wiener Index -- The Mutual Visibility Problem for Fat Robots -- Faster Algorithms for Cycle Hitting Problems on Disk Graphs -- Tight analysis of the lazy algorithm for open online dial-a-ride -- Online TSP with Known Locations -- Socially Fair Matching: Exact and Approximation Algorithms -- A Parameterized Approximation Scheme for Generalized Partial Vertex Cover -- Dominator Coloring and CD Coloring in Almost Cluster Graphs -- Tight

Approximation Algorithms for Ordered Covering -- Online Minimum Spanning Trees with Weight Predictions -- Compact Distance Oracles with Large Sensitivity and Low Stretch -- Finding Diameter-Reducing Shortcuts in Trees -- Approximating the Smallest k -Enclosing Geodesic Disc in a Simple Polygon -- Online Interval Scheduling with Predictions -- On Length-Sensitive Frechet Similarity -- Hardness of Graph-Structured Algebraic and Symbolic Problems-. Sublinear-Space Streaming Algorithms for Estimating Graph Parameters on Sparse Graphs -- Efficient k -center algorithms for planar points in convex position -- Classification via Two-Way Comparisons (extended abstract) -- Improved Bounds for Discrete Voronoi Games -- General Space-Time Tradeoffs via Relational Queries -- Approximate Minimum Sum Colorings and Maximum k -Colorable Subgraphs of Chordal Graphs -- Differentially Private Range Query on Shortest Paths -- Revisiting Graph Persistence for Updates and Efficiency -- Block Crossings in One-Sided Tanglegrams -- Observation Routes and External Watchman Routes -- Lower Bounds for Non-Adaptive Shortest Path Relaxation -- Shortest coordinated motion for square robots -- Linear Layouts of Bipartite Planar Graphs -- Adaptive Data Structures for 2D Dominance Colored Range Counting -- Zip-zip Trees: Making Zip Trees More Balanced, Biased, Compact, or Persistent -- External-Memory Sorting with Comparison Errors -- Verifying the Product of Generalized Boolean Matrix Multiplication and Its Applications to Detect Small Subgraphs -- Reconfiguration of Time-Respecting Arborescences -- Algorithmic Theory of Qubit Routing -- 3-Coloring C_4 or C_3 -free Diameter Two Graphs -- Colored Constrained Spanning Tree on Directed Graphs -- Geometric Hitting Set for Line-Constrained Disks -- An ETH-Tight Algorithm for Bidirected Steiner Connectivity -- From Curves to Words and Back Again: Geometric Computation of Minimum-Area Homotopy -- Fully dynamic clustering and diversity maximization in doubling metrics -- Quick Minimization of Tardy Processing Time on a Single Machine -- Space-Efficient Functional Offline-Partially-Persistent Trees with Applications to Planar Point Location -- Approximating the discrete center line segment in linear time -- Density Approximation for Moving Groups -- Dynamic Convex Hulls under Window-Sliding Updates -- Realizability Makes a Difference: A Complexity Gap for Sink-Finding in USOs.

Sommario/riassunto

This book constitutes the refereed proceedings of the 18th International Symposium on Algorithms and Data Structures, WADS 2023, held during July 31-August 2, 2023. The 47 regular papers, presented in this book, were carefully reviewed and selected from a total of 92 submissions. They present original research on the theory, design and application of algorithms and data structures.
