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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Session 1 - Invited Talk -- Approximation of Multiobjective Optimization Problems -- Session 2A -- Optimal, Suboptimal, and Robust Algorithms for Proximity Graphs -- Optimal Möbius Transformations for Information Visualization and Meshing -- Session 2B -- Using the Pseudo-Dimension to Analyze Approximation Algorithms for Integer Programming -- On the Complexity of Scheduling Conditional Real-Time Code -- Session 3A -- Time Responsive External Data Structures for Moving Points -- Voronoi Diagrams for Moving Disks and Applications -- Session 3B -- Fast

Fixed-Parameter Tractable Algorithms for Nontrivial Generalizations of Vertex Cover -- Deciding Clique-Width for Graphs of Bounded Tree-Width -- Session 4A -- Complexity Bounds for Vertical Decompositions of Linear Arrangements in Four Dimensions -- Optimization over Zonotopes and Training Support Vector Machines -- Reporting Intersecting Pairs of Polytopes in Two and Three Dimensions -- Session 4B -- Seller-Focused Algorithms for Online Auctioning -- Competitive Analysis of the LRFU Paging Algorithm -- Admission Control to Minimize Rejections -- Session 5 - Invited Talk -- Secure Multi-party Computational Geometry -- Session 6A -- The Grid Placement Problem -- On the Reflexivity of Point Sets -- Session 6B -- A 7/8-Approximation Algorithm for Metric Max TSP -- Approximating Multi-objective Knapsack Problems -- Session 7A -- Visual Ranking of Link Structures -- A Simple Linear Time Algorithm for Proper Box Rectangular Drawings of Plane Graphs -- Session 7B -- Short and Simple Labels for Small Distances and Other Functions -- Fast Boolean Matrix Multiplication for Highly Clustered Data -- Session 8A -- Partitioning Colored Point Sets into Monochromatic Parts -- The Analysis of a Probabilistic Approach to Nearest Neighbor Searching -- I/O-Efficient Shortest Path Queries in Geometric Spanners -- Session 8B -- Higher-Dimensional Packing with Order Constraints -- Bin Packing with Item Fragmentation -- Practical Approximation Algorithms for Separable Packing Linear Programs -- Session 9 - Invited Talk -- The Challenges of Delivering Content on the Internet -- Session 10A -- Upward Embeddings and Orientations of Undirected Planar Graphs -- An Approach for Mixed Upward Planarization -- Session 10B -- A Linear-Time Algorithm for Computing Inversion Distance between Signed Permutations with an Experimental Study -- Computing Phylogenetic Roots with Bounded Degrees and Errors -- Session 11A -- A Decomposition-Based Approach to Layered Manufacturing -- When Can You Fold a Map? -- Session 11B -- Search Trees with Relaxed Balance and Near-Optimal Height -- Succinct Dynamic Data Structures -- Session 12A -- Optimal Algorithms for Two-Guard Walkability of Simple Polygons -- Movement Planning in the Presence of Flows -- Session 12B -- Small Maximal Independent Sets and Faster Exact Graph Coloring -- On External-Memory Planar Depth First Search.

Sommario/riassunto

This book constitutes the refereed proceedings of the 7th International Workshop on Algorithms and Data Structures, WADS 2001, held in Providence, RI, USA in August 2001. The 40 revised full papers presented were carefully reviewed and selected from a total of 89 submissions. Among the topics addressed are multiobjective optimization, computational graph theory, approximation, optimization, combinatorics, scheduling, Varanoi diagrams, packings, multi-party computation, polygons, searching, etc.
