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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 3221
Disciplina	005.1
Soggetti	Software engineering Algorithms Numerical analysis Computer science—Mathematics Data structures (Computer science) Computer networks Software Engineering/Programming and Operating Systems Algorithm Analysis and Problem Complexity Numeric Computing Discrete Mathematics in Computer Science Data Structures Computer Communication Networks
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Lectures -- A Survey of FPT Algorithm Design Techniques with an Emphasis on Recent Advances and Connections to Practical Computing -- Algorithmic Aspects of Web Search Engines -- Design and Analysis Track -- Efficient Tradeoff Schemes in Data Structures for Querying Moving Objects -- Swap and Mismatch Edit Distance -- Path Decomposition Under a New Cost Measure with Applications to Optical Network Design -- Optimal External Memory Planar Point Enclosure -- Maximizing Throughput in Multi-queue Switches -- An Improved Algorithm for CIOQ Switches -- Labeling Smart Dust -- Graph

Decomposition Lemmas and Their Role in Metric Embedding Methods -- Modeling Locality: A Probabilistic Analysis of LRU and FWF -- An Algorithm for Computing DNA Walks -- Algorithms for Generating Minimal Blockers of Perfect Matchings in Bipartite Graphs and Related Problems -- Direct Routing: Algorithms and Complexity -- Lower Bounds for Embedding into Distributions over Excluded Minor Graph Families -- A Parameterized Algorithm for Upward Planarity Testing -- Fisher Equilibrium Price with a Class of Concave Utility Functions -- Hardness and Approximation Results for Packing Steiner Trees -- Approximation Hardness of Dominating Set Problems -- Improved Online Algorithms for Buffer Management in QoS Switches -- Time Dependent Multi Scheduling of Multicast -- Convergence Properties of the Gravitational Algorithm in Asynchronous Robot Systems -- The Average Case Analysis of Partition Sorts -- A Fast Distributed Algorithm for Approximating the Maximum Matching -- Extreme Points Under Random Noise -- Fixed Parameter Algorithms for Counting and Deciding Bounded Restrictive List H-Colorings -- On Variable-Sized Multidimensional Packing -- An Inductive Construction for Plane Laman Graphs via Vertex Splitting -- Faster Fixed-Parameter Tractable Algorithms for Matching and Packing Problems -- On the Evolution of Selfish Routing -- Competitive Online Approximation of the Optimal Search Ratio -- Incremental Algorithms for Facility Location and k-Median -- Dynamic Shannon Coding -- Fractional Covering with Upper Bounds on the Variables: Solving LPs with Negative Entries -- Negotiation-Range Mechanisms: Coalition-Resistant Markets -- Approximation Algorithms for Quickest Spanning Tree Problems -- An Approximation Algorithm for Maximum Triangle Packing -- Approximate Parameterized Matching -- Approximation of Rectangle Stabbing and Interval Stabbing Problems -- Fast 3-Coloring Triangle-Free Planar Graphs -- Approximate Unions of Lines and Minkowski Sums -- Radio Network Clustering from Scratch -- Seeking a Vertex of the Planar Matching Polytope in NC -- Equivalence of Search Capability Among Mobile Guards with Various Visibilities -- Load Balancing in Hypercubic Distributed Hash Tables with Heterogeneous Processors -- On the Stability of Multiple Partner Stable Marriages with Ties -- Flows on Few Paths: Algorithms and Lower Bounds -- Maximum Matchings in Planar Graphs via Gaussian Elimination -- Fast Multipoint Evaluation of Bivariate Polynomials -- On Adaptive Integer Sorting -- Tiling a Polygon with Two Kinds of Rectangles -- On Dynamic Shortest Paths Problems -- Uniform Algorithms for Deterministic Construction of Efficient Dictionaries -- Fast Sparse Matrix Multiplication -- Engineering and Applications Track -- An Experimental Study of Random Knapsack Problems -- Contraction and Treewidth Lower Bounds -- Load Balancing of Indivisible Unit Size Tokens in Dynamic and Heterogeneous Networks -- Comparing Real Algebraic Numbers of Small Degree -- Code Flexibility and Program Efficiency by Genericity: Improving Cgal 's Arrangements -- Finding Dominators in Practice -- Data Migration on Parallel Disks -- Classroom Examples of Robustness Problems in Geometric Computations -- Stable Minimum Storage Merging by Symmetric Comparisons -- On Rectangular Cartograms -- Multi-word Atomic Read/Write Registers on Multiprocessor Systems -- Beyond Optimal Play in Two-Person-Zerosum Games -- Solving Geometric Covering Problems by Data Reduction -- Efficient IP Table Lookup via Adaptive Stratified Trees with Selective Reconstructions -- Super Scalar Sample Sort -- Construction of Minimum-Weight Spanners -- A Straight Skeleton Approximating the Medial Axis -- Non-additive Shortest Paths.