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| Altri autori (Persone) | AzarYossi<br>ErlebachThomas |
| Disciplina | 005.1 |
| Soggetti | Software engineering<br>Algorithms<br>Numerical analysis<br>Computer science - Mathematics<br>Discrete mathematics<br>Artificial intelligence - Data processing<br>Computer networks<br>Software Engineering<br>Numerical Analysis<br>Discrete Mathematics in Computer Science<br>Data Science<br>Computer Communication Networks |
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| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | International conference proceedings. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Invited Lectures -- Origami, Linkages, and Polyhedra: Folding with Algorithms -- Reliable and Efficient Geometric Computing -- Some Computational Challenges in Today’s Bio-medicine -- Contributed Papers: Design and Analysis Track -- Kinetic Collision Detection for Convex Fat Objects -- Dynamic Connectivity for Axis-Parallel Rectangles -- Single Machine Precedence Constrained Scheduling Is a Vertex Cover Problem -- Cooperative TSP -- Fréchet Distance for Curves, Revisited -- Resource Allocation in Bounded Degree Trees -- |

Dynamic Algorithms for Graph Spanners -- Latency Constrained Aggregation in Sensor Networks -- Competitive Analysis of Flash-Memory Algorithms -- Contention Resolution with Heterogeneous Job Sizes -- Deciding Relaxed Two-Colorability—A Hardness Jump -- Negative Examples for Sequential Importance Sampling of Binary Contingency Tables -- Estimating Entropy over Data Streams -- Necklaces, Convolutions, and X + Y -- Purely Functional Worst Case Constant Time Catenable Sorted Lists -- Taxes for Linear Atomic Congestion Games -- Spanners with Slack -- Compressed Indexes for Approximate String Matching -- Traversing the Machining Graph -- Efficient Computation of Nash Equilibria for Very Sparse Win-Lose Bimatrix Games -- Distributed Almost Exact Approximations for Minor-Closed Families -- Spectral Clustering by Recursive Partitioning -- Finite Termination of “Augmenting Path” Algorithms in the Presence of Irrational Problem Data -- Dynamic Programming and Fast Matrix Multiplication -- Near-Entropy Hotlink Assignments -- Subspace Sampling and Relative-Error Matrix Approximation: Column-Row-Based Methods -- Finding Total Unimodularity in Optimization Problems Solved by Linear Programs -- Preemptive Online Scheduling: Optimal Algorithms for All Speeds -- On the Complexity of theMultiplication Method for Monotone CNF/DNF Dualization -- Lower and Upper Bounds on FIFO Buffer Management in QoS Switches -- Graph Coloring with Rejection -- A Doubling Dimension Threshold ? (loglogn) for Augmented Graph Navigability -- Violator Spaces: Structure and Algorithms -- Region-Restricted Clustering for Geographic Data Mining -- An O(n 3 (loglogn/logn)5/4) Time Algorithm for All Pairs Shortest Paths -- Cheating by Men in the Gale-Shapley Stable Matching Algorithm -- Approximating Almost All Instances of Max-Cut Within a Ratio Above the Håstad Threshold -- Enumerating Spanning and Connected Subsets in Graphs and Matroids -- Less Hashing, Same Performance: Building a Better Bloom Filter -- A Unified Approach to Approximating Partial Covering Problems -- Navigating Low-Dimensional and Hierarchical Population Networks -- Popular Matchings in the Capacitated House Allocation Problem -- Inner-Product Based Wavelet Synopses for Range-Sum Queries -- Approximation in Preemptive Stochastic Online Scheduling -- Greedy in Approximation Algorithms -- I/O-Efficient Undirected Shortest Paths with Unbounded Edge Lengths -- Stochastic Shortest Paths Via Quasi-convex Maximization -- Path Hitting in Acyclic Graphs -- Minimum Transversals in Posi-modular Systems -- An LP-Designed Algorithm for Constraint Satisfaction -- Approximate k-Steiner Forests Via the Lagrangian Relaxation Technique with Internal Preprocessing -- Balancing Applied to Maximum Network Flow Problems -- Contributed Papers: Engineering and Applications Track -- Out-of-Order Event Processing in Kinetic Data Structures -- Kinetic Algorithms Via Self-adjusting Computation -- Parallel Machine Scheduling Through Column Generation: Minimax Objective Functions -- Reporting Flock Patterns -- On Exact Algorithms for Treewidth -- An ImprovedConstruction for Counting Bloom Filters -- An MINLP Solution Method for a Water Network Problem -- Skewed Binary Search Trees -- Algorithmic Aspects of Proportional Symbol Maps -- Does Path Cleaning Help in Dynamic All-Pairs Shortest Paths? -- Multiline Addressing by Network Flow -- The Engineering of a Compression Boosting Library: Theory vs Practice in BWT Compression -- The Price of Resiliency: A Case Study on Sorting with Memory Faults -- How Branch Mispredictions Affect Quicksort -- Robust, Generic and Efficient Construction of Envelopes of Surfaces in Three-Dimensional Spaces -- Engineering Highway Hierarchies -- Univariate Polynomial Real Root Isolation: Continued

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| | Fractions Revisited -- Exact and Efficient Construction of Planar Minkowski Sums Using the Convolution Method. |
| Sommario/riassunto | This book constitutes the refereed proceedings of the 14th Annual European Symposium on Algorithms, ESA 2006, held in Zurich, Switzerland, in the context of the combined conference ALGO 2006. The book presents 70 revised full papers together with abstracts of 3 invited lectures. The papers address all current subjects in algorithmics, reaching from design and analysis issues of algorithms over to real-world applications and engineering of algorithms in various fields. |