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Disciplina	005.1
Soggetti	Algorithms Computer science—Mathematics Discrete mathematics Artificial intelligence—Data processing Numerical analysis Artificial intelligence Discrete Mathematics in Computer Science Data Science Numerical Analysis Artificial Intelligence
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Practical Variable Length Gap Pattern Matching using Wavelet Trees -- Fast Exact Computation of Isochrones in Road Networks -- Dynamic Time-Dependent Route Planning in Road Networks with User Preferences -- UKP5: a New Algorithm for the Unbounded Knapsack Problem -- Lempel-Ziv Decoding in External Memory -- A Practical Method for the Minimum Genus of a Graph: Models and Experiments -- Compact Flow Diagrams for State Sequences -- Practical Dynamic Entropy-Compressed Bitvectors with Applications -- Accelerating Local Search for the Maximum Independent Set Problem -- Computing Nonsimple Polygons of Minimum Perimeter -- Sparse Subgraphs for 2-Connectivity in Directed Graphs -- Worst-Case-Efficient Dynamic Arrays in Practice -- On the Solution of Circulant Weighing Matrices

Problems Using Algorithm Portfolios on Multi-Core Processors -- Engineering Hybrid DenseZDDs -- Steiner Tree Heuristic in the Euclidean d-Space Using Bottleneck Distances -- Tractable Pathfinding for the Stochastic On-Time Arrival Problem -- An Experimental Evaluation of Fast Approximation Algorithms for the Maximum Satisfiability Problem -- Experimental Analysis of Algorithms for Coflow Scheduling -- An Empirical Study of Online Packet Scheduling Algorithms -- Advanced Multilevel Node Separator Algorithms -- A merging heuristic for the rectangle decomposition of binary matrices -- CHICO: A Compressed Hybrid Index for Repetitive Collections -- Fast Scalable Construction of (Minimal Perfect Hash) Functions -- Better partitions of protein graphs for subsystem quantum chemistry -- Online Algorithm for Approximate Quantile Queries on Sliding Windows.

Sommario/riassunto

This book constitutes the refereed proceedings of the 15th International Symposium on Experimental Algorithms, SEA 2016, held in St. Petersburg, Russia, in June 2016. The 25 revised full papers presented were carefully reviewed and selected from 54 submissions. The main theme of the symposium is the role of experimentation and of algorithm engineering techniques in the design and evaluation of algorithms and data structures. SEA covers a wide range of topics in experimental algorithmics, bringing together researchers from algorithm engineering, mathematical programming, and combinatorial optimization communities.
