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Soggetti	Computer programming Algorithms Computer science—Mathematics Discrete mathematics Numerical analysis Computer graphics Bioinformatics Programming Techniques Discrete Mathematics in Computer Science Numerical Analysis Computer Graphics Computational and Systems Biology
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fixed Point Computation and Equilibrium -- Computer Science in the Information Age -- Knowledge-Based Approaches to Quantitative Medical Image Analysis and Image-Based Decision Making -- Optimal Field Splitting, with Applications in Intensity-Modulated Radiation Therapy -- A Practical Parameterized Algorithm for Weighted Minimum Letter Flips Model of the Individual Haplotyping Problem -- SlopeMiner: An Improved Method for Mining Subtle Signals in Time Course Microarray Data -- A PTAS for the k-Consensus Structures Problem Under Euclidean Squared Distance -- Haplotype Assembly from

Weighted SNP Fragments and Related Genotype Information --
Estimating Hybrid Frequency Moments of Data Streams -- Constraint
Bipartite Vertex Cover Simpler Exact Algorithms and Implementations
-- NP-Completeness of $(k\text{-SAT}, r\text{-UNk-SAT})$ and $(\text{LSAT}^{k,r}, r\text{-UNLSAT}^{k,r})$ -- Absorbing Random Walks and the NAE2SAT Problem --
Versioning Tree Structures by Path-Merging -- A Linear In-situ
Algorithm for the Power of Cyclic Permutation -- Multi-bidding
Strategy in Sponsored Keyword Auction -- A CSP-Based Approach for
Solving Parity Game -- Characterizing and Computing Minimal Cograph
Completions -- Efficient First-Order Model-Checking Using Short
Labels -- Matching for Graphs of Bounded Degree -- Searching Trees
with Sources and Targets -- Ranking of Closeness Centrality for Large-
Scale Social Networks -- Mixed Search Number of Permutation Graphs
-- The 2-Terminal-Set Path Cover Problem and Its Polynomial Solution
on Cographs -- A Distributed Algorithm to Approximate Node-
Weighted Minimum k -Connected (k, k) -Coverage in Dense Sensor
Networks -- Optimal Surface Flattening -- Visiting a Polygon on the
Optimal Way to a Query Point -- Constraint Abstraction in Verification
of Security Protocols -- Fast Convergence of Variable-Structure
Congestion Control Protocol with Explicit Precise Feedback -- Applying
a New Grid-Based Elitist-Reserving Strategy to EMO Archive Algorithms
-- The Parameterized Complexity of the Rectangle Stabbing Problem
and Its Variants -- Solving Medium-Density Subset Sum Problems in
Expected Polynomial Time: An Enumeration Approach -- A Scalable
Algorithm for Graph-Based Active Learning -- A Supervised Feature
Extraction Algorithm for Multi-class -- An Incremental Feature
Learning Algorithm Based on Least Square Support Vector Machine -- A
Novel Wavelet Image Fusion Algorithm Based on Chaotic Neural
Network.

Sommario/riassunto

This book constitutes the refereed proceedings of the Second International Frontiers of Algorithmics Workshop, FAW 2008, held in Changsha, China, in June 2008. The 33 revised full papers presented together with the abstracts of 3 invited talks were carefully reviewed and selected from 80 submissions. The papers were selected for 9 special focus tracks in the areas of biomedical informatics, discrete structures, geometric information processing and communication, games and incentive analysis, graph algorithms, internet algorithms and protocols, parameterized algorithms, design and analysis of heuristics, approximate and online algorithms, and machine learning.
