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   Nota di contenuto           Invited Lecture -- Matchings in Graphs Variations of the Problem --
                               Combinatorics from Bacterial Genomes -- Contributed Papers -- An
                               Algorithm for Computing Virtual Cut Points in Finite Metric Spaces --
                               Finding the Anti-block Vital Edge of a Shortest Path Between Two
                               Nodes -- K-Connected Target Coverage Problem in Wireless Sensor
                               Networks -- Searching Cycle-Disjoint Graphs -- An Asymptotic PTAS
                               for Batch Scheduling with Nonidentical Job Sizes to Minimize Makespan
                               -- A New Dynamic Programming Algorithm for Multiple Sequence
                               Alignment -- Energy Minimizing Vehicle Routing Problem -- On the
                               On-Line k-Taxi Problem with Limited Look Ahead -- The Minimum Risk
                               Spanning Tree Problem -- The Size of a Minimum Critically m-

Neighbor-Scattered Graph -- A New Hybrid Algorithm for Feature Selection and Its Application to Customer Recognition -- Steiner Forests on Stochastic Metric Graphs -- On Threshold BDDs and the Optimal Variable Ordering Problem -- Communication Leading to Nash Equilibrium Through Robust Messages – S5-Knowledge Model Case – -- Fundamental Domains for Integer Programs with Symmetries -- Exact Algorithms for Generalized Combinatorial Optimization Problems -- Approximation Algorithms for k-Duplicates Combinatorial Auctions with Subadditive Bidders -- A Grid Resource Discovery Method Based on Adaptive k-Nearest Neighbors Clustering -- Algorithms for Minimum m-Connected k-Dominating Set Problem -- Worst Case Analysis of a New Lower Bound for Flow Shop Weighted Completion Time Problem -- Scaling, Renormalization, and Universality in Combinatorial Games: The Geometry of Chomp -- Mechanism Design by Creditability -- Infinite Families of Optimal Double-Loop Networks -- Point Sets in the Unit Square and Large Areas of Convex Hulls of Subsets of Points -- An Experimental Study of Compressed Indexing and Local Alignments of DNA -- Secure Multiparty Computations Using the 15 Puzzle -- A Lagrangian Relaxation Approach for the Multiple Sequence Alignment Problem -- Single Machine Common Due Window Scheduling with Controllable Job Processing Times -- A Lower Bound on Approximation Algorithms for the Closest Substring Problem -- A New Exact Algorithm for the Two-Sided Crossing Minimization Problem -- Improved Approximation Algorithm for Connected Facility Location Problems -- The Computational Complexity of Game Trees by Eigen-Distribution -- The Minimum All-Ones Problem for Graphs with Small Treewidth -- An Exact Algorithm Based on Chain Implication for the Min-CVCB Problem -- Arc Searching Digraphs Without Jumping -- On the Complexity of Some Colorful Problems Parameterized by Treewidth -- A PTAS for the Weighted 2-Interval Pattern Problem over the Preceding-and-Crossing Model.

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| Sommario/riassunto | This book constitutes the refereed proceedings of the First International Conference on Combinatorial Optimization and Applications, COCOA 2007, held in Xi'an, China in August 2007. The 29 revised full papers presented together with 8 invited papers and 2 invited presentations were carefully reviewed and selected from 114 submissions. The papers feature original research in the areas of combinatorial optimization - both theoretical issues and and applications motivated by real-world problems thus showing convincingly the usefulness and efficiency of the algorithms discussed in a practical setting. |