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| | Nota di bibliografia | Includes bibliographical references and index. |
| | Nota di contenuto | Going Weighted: Parameterized Algorithms for Cluster Editing -- Parameterized Graph Editing with Chosen Vertex Degrees -- Fixed-Parameter Tractability of Anonymizing Data by Suppressing Entries -- Multiple Hypernode Hitting Sets and Smallest Two-Cores with Targets -- Parameterized Complexity of Candidate Control in Elections and Related Digraph Problems -- A Parameterized Perspective on Packing Paths of Length Two -- New Algorithms for k-Center and Extensions -- Separating Sublinear Time Computations by Approximate Diameter -- |

Computational Study on Dominating Set Problem of Planar Graphs -- Optimal Movement of Mobile Sensors for Barrier Coverage of a Planar Region -- Parameterized Algorithms for Generalized Domination -- Turán Graphs, Stability Number, and Fibonacci Index -- Vertex-Uncertainty in Graph-Problems -- Protean Graphs with a Variety of Ranking Schemes -- Simplicial Powers of Graphs -- On k- Versus (k?+? 1)-Leaf Powers -- Flows with Unit Path Capacities and Related Packing and Covering Problems -- Strong Formulations for 2-Node-Connected Steiner Network Problems -- Algorithms and Implementation for Interconnection Graph Problem -- Algorithms and Experimental Study for the Traveling Salesman Problem of Second Order -- Fast Computation of Point-to-Point Paths on Time-Dependent Road Networks -- Ant Colony Optimization Metaheuristic for the Traffic Grooming in WDM Networks -- Elementary Approximation Algorithms for Prize Collecting Steiner Tree Problems -- Polynomial Time Approximation Scheme for Connected Vertex Cover in Unit Disk Graph -- Improved Primal-Dual Approximation Algorithm for the Connected Facility Location Problem -- Two Constant Approximation Algorithms for Node-Weighted Steiner Tree in Unit Disk Graphs -- An Improved Approximation Algorithm for the Capacitated Multicast Tree Routing Problem -- Covering Arrays Avoiding Forbidden Edges -- The Robot Cleans Up -- On Recovering Syntenic Blocks from Comparative Maps -- Automatic Generation of Symmetry-Breaking Constraints -- On the Stable Set Polytope of Claw-Free Graphs -- A Combinatorial Algorithm to Optimally Colour the Edges of the Graphs That Are Join of Regular Graphs -- Magic Labelings on Cycles and Wheels -- Minimum Cost Homomorphism Dichotomy for Locally In-Semicomplete Digraphs -- The Clique Corona Operation and Greedoids -- On the Surface Area of the (n, k)-Star Graph -- Enumerating Isolated Cliques in Synthetic and Financial Networks -- A Risk-Reward Competitive Analysis for the Recoverable Canadian Traveller Problem -- Minimizing Total Completion Time in Two-Machine Flow Shops with Exact Delays -- Efficient Method for Periodic Task Scheduling with Storage Requirement Minimization -- Stochastic Online Scheduling Revisited -- Delay Management Problem: Complexity Results and Robust Algorithms -- Clustered SplitsNetworks.

| Sommario/riassunto | This book constitutes the refereed proceedings of the Second International Conference on Combinatorial Optimization and Applications, COCOA 2008, held in St. John's, Canada, in August 2008. The 44 revised full papers were carefully reviewed and selected from 84 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. |