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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 13153
Disciplina	005.1
Soggetti	Computer science - Mathematics Discrete mathematics Computer science Image processing - Digital techniques Computer vision Data structures (Computer science) Information theory Numerical analysis Discrete Mathematics in Computer Science Theory of Computation Computer Imaging, Vision, Pattern Recognition and Graphics Data Structures and Information Theory Numerical Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Approximation Algorithms -- Constant-Approximation for Prize-Collecting Min-Sensor Sweep Coverage with Base Stations -- Approximation Algorithm for the Capacitated Correlation Clustering Problem with Penalties -- Approximation algorithms for the maximum bounded connected bipartition problem -- An Approximation Algorithm for Solving the Heterogeneous Chinese Postman Problem -- On Stochastic k-Facility Location -- The Complexity of Finding a

Broadcast Center -- An Online Algorithm for Data Caching Problem in Edge Computing -- Topical part: Scheduling -- Scheduling on Multiple Two-Stage Flowshops with A Deadline -- Single machine scheduling with rejection to minimize the weighted makespan -- Maximizing Energy Efficiency for Charger Scheduling of WRSNs -- A New Branch-and-Price Algorithm for Daily Aircraft Routing and Scheduling Problem -- Optimizing mobile charger scheduling for task-based sensor networks -- Semi-online early work maximization problem on two hierarchical machines with partial information of processing time -- Topical part: Nonlinear Combinatorial Optimization -- Streaming Algorithms for Maximizing DR-submodular Functions with d-Knapsack Constraints -- Stochastic Submodular Probing with State-Dependent Costs -- Bi-criteria Adaptive Algorithms for Supermodular Minimization -- Improved Algorithms for Non-submodular Function Maximization Problem -- Fixed Observation Time-step: Adaptive Influence Maximization -- Measured Continuous Greedy with Differential Privacy -- Topical part: Network Problems -- Robust t-Path Topology Control Algorithm in Wireless Ad Hoc Networks -- Multi-attribute based Influence Maximization in Social Networks -- A parallel algorithm for constructing multiple independent spanning trees in bubble-sort networks -- A Fast FPTAS for Two Dimensional Barrier Coverage Using Sink-Based Mobile Sensors with Min-Sum Movement -- Time Sensitive Sweep Coverage with Multiple UAVs -- Recursive Merged Community Detection Algorithm based on Node Cluster -- Purchase Preferences - Based Air Passenger Choice Behavior Analysis from Sales Transaction Data -- Topical part: Blockchain, Logic, Complexity and Reliability -- Multi-Window Bitcoin Price Prediction Framework on Blockchain Transaction Graph -- Sensitivity-Based Optimization for Blockchain Selfish Mining -- Design and Implementation of List and Dictionary in XD-M Language -- Reliable Edge Intelligence using JPEG Progressive -- A game-theoretic analysis of deep neural networks -- Energy Complexity of Satisfying Assignments in Monotone Circuits: On the Complexity of Computing the Best Case -- Topical part: Miscellaneous -- The independence numbers of weighted graphs with forbidden cycles -- Wegner's Conjecture on 2-Distance Coloring -- An Efficient Oracle for Counting Shortest Paths in Planar Graphs -- Restrained and total restrained domination in cographs -- An order Approach for the Core Maintenance Problem on Edge-weighted Graphs -- Fixed-parameter Tractability for Book Drawing with Bounded Number of Crossings Per Edge.

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### Sommario/riassunto

This book constitutes the proceedings of the 15th International Conference on Algorithmic Aspects in Information and Management, AAIM 2021, which was held online during December 20-22, 2021. The conference was originally planned to take place in Dallas, Texas, USA, but changed to a virtual event due to the COVID-19 pandemic. The 38 regular papers included in this book were carefully reviewed and selected from 62 submissions. They were organized in the following topical sections: approximation algorithms; scheduling; nonlinear combinatorial optimization; network problems; blockchain, logic, complexity and reliability; and miscellaneous. .

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