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Soggetti	Computer science—Mathematics Algorithms Data structures (Computer science) Information theory Mathematics—Data processing Mathematics of Computing Design and Analysis of Algorithms Data Structures and Information Theory Computational Mathematics and Numerical Analysis Algorismes Geometria Teoria de grafs Congressos Llibres electrònics
Lingua di pubblicazione	Inglese
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Nota di contenuto	Approximation Algorithms -- Online bin packing with overload cost -- Scheduling Trains with Small Stretch on a Unidirectional Line -- Algorithmic Aspects of Total Roman and Total Double Roman Domination in Graphs -- Approximation Algorithms for Orthogonal Line Centers -- Semitotal Domination on AT-free Graphs and Circle

Graphs -- Burning Grids and Intervals -- Parameterized Algorithms -- On Parameterized Complexity of Liquid Democracy -- Acyclic coloring parameterized by directed clique-width. - On Structural Parameterizations of Load Coloring -- One-Sided Discrete Terrain Guarding and Chordal Graphs -- Parameterized Complexity of Locally Minimal Defensive Alliances -- Computational Geometry -- New variants of Perfect Non-crossing Matchings -- Cause I'm a Genial Imprecise Point: Outlier Detection for Uncertain Data -- A Worst-case Optimal Algorithm to Compute the Minkowski Sum of Convex Polytopes -- On the Intersections of Non-homotopic Loops -- Graph Theory -- On cd-coloring of trees and co-bipartite graphs -- Cut Vertex Transit Functions of Hypergraphs -- Lexicographic Product of Digraphs and Related Boundary-Type Sets -- The Connected Domination Number of Grids -- On degree sequences and eccentricities in pseudoline arrangement graphs. - Cops and Robber on Butterflies and Solid Grids -- b-Coloring of Some Powers of Hypercubes -- Chromatic Bounds for the Subclasses of k -Free Graphs -- Axiomatic characterization of the median function of a block graph -- On Coupon Coloring of Cartesian Product of Some Graphs -- On the Connectivity and the Diameter of Betweenness-Uniform Graphs. -Combinatorics and Algorithms -- On algorithms to find p-ordering -- Experimental Evaluation of a Local Search Approximation Algorithm for the Multiway Cut Problem -- Algorithmic analysis of priority-based bin packing -- Recursive methods for some problems in coding and random permutations -- Achieving positive rates with predetermined dictionaries -- Characterization of Dense Patterns Having Distinct Squares -- Graph Algorithms -- Failure and communication in a synchronized multi-drone system -- Memory Optimal Dispersion by Anonymous Mobile Robots -- Quantum and approximation algorithms for maximum witnesses of Boolean matrix products. -Template-driven Rainbow Coloring of Proper Interval Graphs -- Minimum Consistent Subset of Simple Graph Classes. - Computational Complexity -- Balanced Connected Graph Partition -- Hardness Results of Global Roman Domination in Graphs. .

Sommario/riassunto

This book constitutes the proceedings of the 7th International Conference on Algorithms and Discrete Applied Mathematics, CALDAM 2021, which was held in Rupnagar, India, during February 11-13, 2021. The 39 papers presented in this volume were carefully reviewed and selected from 82 submissions. The papers were organized in topical sections named: approximation algorithms; parameterized algorithms; computational geometry; graph theory; combinatorics and algorithms; graph algorithms; and computational complexity. .
