

1. Record Nr.	UNINA9910483693803321
Titolo	Algorithms and Discrete Applied Mathematics : 7th International Conference, CALDAM 2021, Rupnagar, India, February 11–13, 2021, Proceedings // edited by Apurva Mudgal, C. R. Subramanian
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-67899-7
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (519 pages)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 12601
Disciplina	004.0151
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
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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  $k_2$ -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. .

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### 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. .

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