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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 9602
Disciplina	005.1
Soggetti	Algorithms Artificial intelligence - Data processing Computer science - Mathematics Discrete mathematics Numerical analysis Computer graphics Data Science Discrete Mathematics in Computer Science Numerical Analysis Computer Graphics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Algorithms for Problems on Maximum Density Segment -- Distance spectral radius of k-partitioned transmission regular graphs -- Color Spanning Objects: Algorithms and Hardness Results -- On Hamiltonian colorings of trees -- On the Complexity Landscape of the Domination Chain -- On the probability of being synchronizable -- Linear-Time Fitting of a k-Step Function -- Random-bit optimal uniform sampling for rooted planar trees with given sequence of degrees and Applications -- Axiomatic Characterization of Claw and Paw-free Graphs Using Graph Transit Functions -- Linear time algorithms for Euclidean 1-center in higher dimensions with non-linear convex constraints -- Lower Bounds on the Dilation of Plane Spanners --

Lattice Spanners of Low Degree -- AND-Decomposition of Boolean Polynomials with Prescribed Shared Variables -- Approximation Algorithms for Cumulative VRP with Stochastic Demands -- Some Distance Antimagic Labelled Graphs -- A New Construction of Broadcast Graphs -- Improved Algorithm for Maximum Independent Set on Unit Disk Graph -- Independent Sets in Classes Related to Chair-free Graphs -- Cyclic Codes over Galois Rings -- On The Center Sets of Some Graph Classes -- On Irreducible No-hole $L(2,1)$ -labelings of Hypercubes and Triangular Lattices -- Medians of permutations : building constraints -- b -Disjunctive total domination in graphs: Algorithm and hardness results -- m -Gracefulness of Graphs -- Domination Parameters in Hypertree -- Complexity of Steiner Tree in Split Graphs - Dichotomy Results -- Relative clique number of planar signed graphs -- The cd-coloring of graphs -- Characterization of H-graphs -- On the Power Domination Number of Graph Products.

Sommario/riassunto

This book collects the refereed proceedings of the Second International Conference on Algorithms and Discrete Applied Mathematics, CALDAM 2016, held in Thiruvananthapuram, India, in February 2016. The volume contains 30 full revised papers from 90 submissions along with 1 invited talk presented at the conference. The conference focuses on topics related to efficient algorithms and data structures, their analysis (both theoretical and experimental) and the mathematical problems arising thereof, and new applications of discrete mathematics, advances in existing applications and development of new tools for discrete mathematics.
