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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 10156
Disciplina	004.0151
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	Optimal embedding of locally twisted cubes into grids -- Polynomial Time Algorithms for Bichromatic Problems -- Voronoi Diagram for Convex Polygonal Sites with Convex Polygon-Offset Distance Function -- Optimum Gathering of Asynchronous Robots -- Improved bounds for poset sorting in the forbidden-comparison regime -- Positional Dominance: Concepts and Algorithms -- Accurate Low-Space Approximation of Metric k-Median for Insertion-Only Streams -- Querying Relational Event Graphs using Colored Range Searching Data Structures -- Axiomatic Characterization of the Interval Function of a Bipartite Graph -- Analysis of 2-Opt Heuristic for the Winner

Determination Problem under the Chamberlin-Courant System -- On Structural Parameterizations of Graph Motif and Chromatic Number -- On chromatic number of colored mixed graphs -- Optimizing movement in a convex path-network to establish connectivity -- On colouring point visibility graphs -- Decomposing semi-complete multigraphs and directed graphs into paths of length two -- On Rank and MDR Cyclic codes of length  $2k$  over  $Z_8$  -- Group Distance Magic Labeling of  $C_n$  -- Broadcast Graphs Using New Dimensional Broadcast Schemes for Knödel Graphs -- Incremental algorithms to update visibility polygons -- Liar's Domination in 2D -- Structured Instances of Restricted Assignment with Two Processing Times -- Elusiveness of finding degrees -- Maximum weighted independent sets with a budget -- Demand hitting and covering of intervals -- Exact And Parameterized Algorithms For  $(k; i)$ -coloring -- The Graph of the Pedigree Polytope is Asymptotically Almost Complete. -- Induced matching in some subclasses of bipartite graphs -- Hamiltonicity in Split Graphs - a dichotomy -- Finding Large Independent Sets in Line of Sight Networks -- A lower bound of the  $cd$ -chromatic number and its complexity -- Stability number and  $k$ -Hamiltonian  $[a,b]$ -factors -- Subgraphs with orthogonal  $[0; k]_{n-1}$ -factorizations in graphs.

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### Sommario/riassunto

This book constitutes the proceedings of the Third International Conference on Algorithms and Discrete Applied Mathematics, CALDAM 2017, held in Goa, India, in February 2017. The 32 papers presented in this volume were carefully reviewed and selected from 103 submissions. They deal with the following areas: algorithms, graph theory, codes, polyhedral combinatorics, computational geometry, and discrete geometry. .

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