1. **Record Nr.** UNISA996465482803316

Titolo Graph-Theoretic Concepts in Computer Science [[electronic resource]] : 21st International Workshop, WG '95, Aachen, Germany, June 20 - 22, 1995. Proceedings / / edited by Manfred Nagl

Pubbl/distr/stampa Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1995

ISBN 3-540-48487-6

Edizione [1st ed. 1995.]

Descrizione fisica 1 online resource (XII, 411 p.)

Collana Lecture Notes in Computer Science, , 0302-9743 ; ; 1017

Disciplina 511.5

Soggetti Graph theory
Computers
Algorithms
Combinatorics
Computer logic
Graph Theory
Theory of Computation
Algorithm Analysis and Problem Complexity
Computation by Abstract Devices
Logics and Meanings of Programs

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Note generali Bibliographic Level Mode of Issuance: Monograph

Nota di contenuto VC-dimensions for graphs (extended abstract) -- Finding and counting small induced subgraphs efficiently -- On the isomorphism of graphs with few P4s -- A dynamic algorithm for line graph recognition -- Incremental hive graph -- Planarization of graphs embedded on surfaces -- Complexity and approximability of certain bicriteria location problems -- On termination of graph rewriting -- A uniform approach to graph rewriting: The pullback approach -- Visualizing two- and three-dimensional models of meristematic growth -- Graph-theoretical methods to construct entity-relationship databases -- An approximation algorithm for 3-Colourability -- The malleability of TSP 2Opt -- Non-oblivious local search for graph and hypergraph coloring problems -- On Interval Routing Schemes and treewidth -- Highly

fault-tolerant routings and diameter vulnerability for generalized hypercube graphs -- Hot-potato routing on multi-dimensional tori -- On devising Boolean Routing schemes -- Toward a general theory of unicast-based multicast communication -- Optimal cutwidths and bisection widths of 2- and 3-dimensional meshes -- Searching for faulty leaves in binary trees -- NC algorithms for partitioning planar graphs into induced forests and approximating NP-hard problems -- Efficient parallel modular decomposition (extended abstract) -- Modular decomposition of hypergraphs -- Partition coefficients of acyclic graphs -- Sub-cubic cost algorithms for the all pairs shortest path problem -- Diametral path graphs -- Chordal graphs and their clique graphs -- A compact data structure and parallel algorithms for permutation graphs -- Homogeneously orderable graphs and the Steiner tree problem.

Sommario/riassunto	This book constitutes the refereed proceedings of the 21st International Workshop on Graph-Theoretic Concepts in Computer Science, WG '95, held in Aachen, Germany, in June 1995. The WG workshop series contributes to integration in computer science by applying graph theoretical concepts in various areas as well as by taking up problems from practical applications and treating them theoretically. The book presents 30 carefully refereed revised papers selected from 52 submissions and reflects current activities in the field of computer science oriented graph theory, its computational aspects and its application.