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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 570
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Soggetti	Computer science—Mathematics Algorithms Combinatorics Computers Data structures (Computer science) Logic design Mathematics of Computing Algorithm Analysis and Problem Complexity Computation by Abstract Devices Data Structures Logic Design
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Nota di contenuto	Approximating treewidth, pathwidth, and minimum elimination tree height -- Monadic second-order evaluations on tree-decomposable graphs -- Optimal embedding of complete binary trees into lines and grids -- Graph rewriting systems and their application to network reliability analysis -- Nondeterministic control structures for graph rewriting systems -- A language for generic graph-transformations -- Attributed elementary programmed graph grammars -- The complexity of approximating the class Steiner tree problem -- On complexity of some chain and antichain partition problems -- Tight bounds for the rectangular art gallery problem -- Voronoi diagrams of moving points

	in the plane -- Using maximal independent sets to solve problems in parallel -- Fast parallel algorithms for coloring random graphs -- Optimal vertex ordering of a graph and its application to symmetry detection -- Edge separators for graphs of bounded genus with applications -- Line digraph iterations and the spread concept—with application to graph theory, fault tolerance, and routing -- A generalized encryption scheme based on random graphs -- Dynamic algorithms for shortest paths in planar graphs -- Complete problems for logspace involving lexicographic first paths in graphs -- A new upper bound on the complexity of the all pairs shortest path problem -- On the crossing number of the hypercube and the cube connected cycles -- Logic arrays for interval indicator functions -- On the broadcast time of the butterfly network -- On disjoint cycles -- Short disjoint cycles in cubic bridgeless graphs.
Sommario/riassunto	This volume contains contributions to the 17th International workshop on Graph-Theoretic Concepts in Computer Science (WG '91) held in Southern Bavaria in June 1991. These annual workshops are designed to bring together researchers using graph-theoretic methods to discuss new developments relating to or emerging from a diversity of application fields. The topics covered in this volume include: tree-related problems, graph grammarsand rewriting, complexity, computational geometry, parallel algorithms, vertex orderings, path-oriented algorithms, applications to VLSI, and disjoint cycle problems.