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	mode without panic Computation tree logic CTL* and path quantifiers in the monadic theory of the binary tree Modelchecking of CTL formulae under liveness assumptions A modal logic for a subclass of event structures Parallel 5-colouring of planar graphs Parallel construction of a suffix tree The probabilistic and deterministic parallel complexity of symmetric functions Term matching on parallel computers Guessing games and distributed computations in synchronous networks On the bivariate function minimization problem and its applications to motion planning Testing the necklace condition for Shortest Tours and optimal factors in the plane Nearly optimal heuristics for binary search trees with geometric generalizations Approximating integer lattices by lattices with cyclic factor groups On the complexity of graph critical uncolorability Posets, boolean representations and quick path searching The lexicographically first maximal subgraph problems: P-completeness and NC algorithms Uniform computational complexity of Taylor series Efficient on-line algorithms for the knapsack problem Lower bounds for sorting of sums The I/O complexity of sorting and related problems A lower bound for the complexity of structured transition systems Completeness results for reachability, containment, and equivalence, with respect to conflict-free vector replacement systems Partial algebras flow from algebraic specifications The logarithmic alternation hierarchy collapses: AL2=AL2 Testing membership in commutative transformation semigroups On the computing power of one-way cellular arrays Recent developments in the theory of learning.
Sommario/riassunto	This volume contains the proceedings of the 14th International Colloquium on Automata Languages and Programming, organized by the European Association for Theoretical Computer Science (EATCS) and held in Karlsruhe, July 13-17, 1987. The papers report on original research in theoretical computer science and cover topics such as algorithms and data structures, automata and formal languages, computability and complexity theory, semantics of programming languages, program specification, transformation and verification, theory of data bases, logic programming, theory of logical design and layout, parallel and distributed computation, theory of concurrency, symbolic and algebraic computation, term rewriting systems, cryptography, and theory of robotics. The authors are young scientists and leading experts in these areas.