

1. Record Nr.	UNISA996465546103316
Titolo	Automata, Languages and Programming [[electronic resource]] : 18th International Colloquium, Madrid, Spain, July 8-12, 1991. Proceedings / / edited by Javier Leach Albert, Burkhard Monien, Mario Rodriguez Artalejo
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1991
ISBN	3-540-47516-8
Edizione	[1st ed. 1991.]
Descrizione fisica	1 online resource (XII, 768 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 510
Disciplina	004.0151
Soggetti	Computers Mathematical logic Data structures (Computer science) Combinatorics Algorithms Artificial intelligence Theory of Computation Mathematical Logic and Formal Languages Data Structures Algorithm Analysis and Problem Complexity Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	On the semantics of logic programs -- Logic programming with recurrence domains -- Extensional embedding of a strongly stable model of PCF -- Uniform ideals and strictness analysis -- Logical and computational aspects of programming with sets/bags/lists -- Safety for branching time semantics -- Program composition and modular verification -- Model-checking for probabilistic real-time systems -- Computing behavioural relations, logically -- The power of reconfiguration -- General resolution of tseitin formulas is hard -- Program checkers for probability generation -- Running time to recognize nonregular languages by 2-way probabilistic automata --

Statistics on random trees -- The expressive power of implicit specifications -- CCS + time = an interleaving model for real time systems -- On confluent semi-commutations — Decidability and complexity results -- Lazard's factorizations of free partially commutative monoids -- A Kleene theorem for infinite trace languages -- Canonical sets of horn clauses -- A specialized completion procedure for monadic string-rewriting systems presenting groups -- A confluent reduction for the λ -calculus with surjective pairing and terminal object -- Provably recursive programs and program extraction -- Efficient algorithms for path problems with general cost criteria -- Computing shortest paths and distances in planar graphs -- Maintaining biconnected components of dynamic planar graphs -- Efficient maximal cubic graph cuts -- Structural parallel algorithmics -- Improving known solutions is hard -- Collapsing degrees via strong computation -- Fast parallel generation of random permutations -- A parallel algorithm for two processors precedence constraint scheduling -- An efficient NC algorithm for finding Hamiltonian cycles in dense directed graphs -- On logics, tilings, and automata -- Satisfiability of systems of ordinal notations with the subterm property is decidable -- Complete axiomatizations of some quotient term algebras -- The meaning of negative premises in transition system specifications -- Deciding history preserving bisimilarity -- Adding action refinement to a finite process algebra -- Improved parallel computations with matrices and polynomials -- Finding minimal forbidden minors using a finite congruence -- Better algorithms for the pathwidth and treewidth of graphs -- Two P-complete problems in the theory of the reals -- L morphisms: Bounded delay and regularity of ambiguity -- Degree and decomposability of variable-length codes -- An EILENBERG theorem for λ -languages -- Balancing order and chaos in image generation -- Average case complexity -- Minimal NFA problems are hard -- Algorithms for determining the smallest number of nonterminals (states) sufficient for generating (accepting) a regular language -- Computing shortest transversals -- Ray shooting in polygons using geodesic triangulations -- The expected extremes in a delaunay triangulation -- Computational geometry for the gourmet old fare and new dishes -- On the power of multiple reads in a chip -- On linear decision trees computing Boolean functions -- An almost linear-time algorithm for the dense subset-sum problem -- On-line algorithms for weighted bipartite matching and stable marriages -- String matching with preprocessing of text and pattern -- Ordering problems approximated: single-processor scheduling and interval graph completion.

Sommario/riassunto

This volume contains the proceedings of ICALP '91, the 18th annual summer conference sponsored by the European Association for Theoretical Computer Science (EATCS). ICALP stands for International Colloquium on Automata, Languages, and Programming, and this conference series covers all important areas of theoretical computer science, such as: computability, automata, formal languages, data types and structures, theory of databases and knowledge bases, semantics of programming languages, program specification, transformation and verification, foundations of logic and functional programming, theory of logical design and layout, parallel and distributed computation, theory of concurrency, symbolic and algebraic computation, term rewriting systems, computational geometry, cryptography, and theory of robotics.
