

1. Record Nr.	UNINA9910768477803321
Titolo	Automata, Languages and Programming [[electronic resource]] : 24th International Colloquium, ICALP'97, Bologna, Italy, July 7 - 11, 1997, Proceedings // edited by Pierpaolo Degano, Roberto Gorrieri, Alberto Marchetti-Spaccamela
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1997
ISBN	3-540-69194-4
Edizione	[1st ed. 1997.]
Descrizione fisica	1 online resource (XXXII, 864 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1256
Disciplina	004.0151
Soggetti	Computers Computer programming Programming languages (Electronic computers) Computer communication systems Computer science—Mathematics Theory of Computation Programming Techniques Programming Languages, Compilers, Interpreters Computer Communication Networks Mathematics of Computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Graphical calculi for interaction -- NP-completeness: A retrospective -- The LEDA platform for combinatorial and geometric computing -- The Wadge-Wagner hierarchy of ω -rational sets -- From chaotic iteration to constraint propagation -- DNA2DNA computations: A potential "killer app"? -- Tilings and quasiperiodicity -- Enumerative sequences of leaves in rational trees -- A completion algorithm for codes with bounded synchronization delay -- The expressibility of languages and relations by word equations -- Finite loops recognize exactly the regular open languages -- An abstract data type for real numbers -- Recursive computational depth -- Some bounds on the computational power of piecewise constant derivative systems (extended abstract) --

Monadic simultaneous rigid E-unification and related problems -- Computability on the probability measures on the Borel sets of the unit interval -- Worst-case hardness suffices for derandomization: A new method for hardness-randomness trade-offs -- Results on resource-bounded measure -- Randomization and nondeterminism are comparable for ordered read-once branching programs -- Checking properties of polynomials -- Exact analysis of Dodgson elections: Lewis Carroll's 1876 voting system is complete for parallel access to NP -- Game theoretic analysis of call-by-value computation -- On modular properties of higher order extensional lambda calculi -- On explicit substitutions and names (extended abstract) -- On the dynamics of sharing graphs -- Minimizing diameters of dynamic trees -- Improving spanning trees by upgrading nodes -- Dynamic algorithms for graphs of bounded treewidth -- The name discipline of uniform receptiveness (extended abstract) -- On confluence in the λ -calculus -- A proof theoretical approach to communication -- Solving trace equations using lexicographical normal forms -- Star-free picture expressions are strictly weaker than first-order logic -- An algebra-based method to associate rewards with EMPA terms -- A semantics preserving actor translation -- Periodic and non-periodic min-max equations -- Efficient parallel graph algorithms for coarse grained multicomputers and BSP -- Upper bound on the communication complexity of private information retrieval -- Computation paths logic: An expressive, yet elementary, process logic -- Model checking the full modal mu-calculus for infinite sequential processes -- Symbolic model checking for probabilistic processes -- On the concentration of the height of binary search trees -- An improved master theorem for divide-and-conquer recurrences -- Bisimulation for probabilistic transition systems: A coalgebraic approach -- Distributed processes and location failures -- Basic observables for processes -- Constrained bipartite edge coloring with applications to wavelength routing -- Colouring paths in directed symmetric trees with applications to WDM routing -- On-line routing in all-optical networks -- A complete characterization of the path layout construction problem for ATM networks with given hop count and load -- Efficiency of asynchronous systems and read arcs in petri nets -- Bisimulation equivalence is decidable for one-counter processes -- Symbolic reachability analysis of FIFO-channel systems with nonregular sets of configurations -- Axiomatizations for the perpetual loop in process algebra -- Discrete-time control for rectangular hybrid automata -- Maintaining minimum spanning trees in dynamic graphs -- Efficient splitting and merging algorithms for order decomposable problems -- Efficient array partitioning -- Constructive linear time algorithms for branchwidth -- The word matching problem is undecidable for finite special string-rewriting systems that are confluent -- The geometry of orthogonal reduction spaces -- The theory of vaccines -- The equivalence problem for deterministic pushdown automata is decidable -- On recognizable and rational formal power series in partially commuting variables -- On a conjecture of J. Shallit -- On characterizations of escrow encryption schemes -- Randomness-efficient non-interactive zero knowledge -- Approximation results for the optimum cost chromatic partition problem -- The minimum color sum of bipartite graphs -- A primal-dual approach to approximation of node-deletion problems for matroidal properties -- Independent sets in asteroidal triple-free graphs -- Refining and compressing abstract domains -- Labelled reductions, runtime errors, and operational subsumption -- A complete and efficiently computable topological classification of D-dimensional linear cellular automata over \mathbb{Z}_m -- Recognizability equals definability

for partial k-paths -- Molecular computing, bounded nondeterminism, and efficient recursion -- Constructing big trees from short sequences -- Termination of constraint logic programs -- The expressive power of unique total stable model semantics.

Sommario/riassunto

This book constitutes the refereed proceedings of the 24th International Colloquium on Automata, Languages and Programming, ICALP '97, held in Bologna, Italy, in July 1997. ICALP '97 celebrated the 25th anniversary of the European Association for Theoretical Computer Science (EATCS), which has sponsored the ICALP meetings since 1972. The volume presents 73 revised full papers selected from a total of 197 submissions. Also included are six invited contributions. ICALP is one of the few flagship conferences in the area. The book addresses all current topics in theoretical computer science.
