

1. Record Nr.	UNISA996466078103316
Titolo	STACS 93 [[electronic resource]] : 10th Annual Symposium on Theoretical Aspects of Computer Science, Würzburg, Germany, February 25-27, 1993. Proceedings / / edited by Patrice Enjalbert, Alain Finkel, Klaus W. Wagner
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1993
ISBN	3-540-47574-5
Edizione	[1st ed. 1993.]
Descrizione fisica	1 online resource (XIV, 730 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 665
Disciplina	004.0151
Soggetti	Computers Algorithms Computer logic Mathematical logic Arithmetic and logic units, Computer Theory of Computation Computation by Abstract Devices Algorithm Analysis and Problem Complexity Logics and Meanings of Programs Mathematical Logic and Formal Languages Arithmetic and Logic Structures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Causal and distributed semantics for concurrent processes -- Editorial note -- Alternation for two-way machines with sublogarithmic space -- Separating the lower levels of the sublogarithmic space hierarchy -- Locating P/poly optimally in the extended low hierarchy -- Measure, stochasticity, and the density of hard languages -- Halting problem of one binary Horn clause is undecidable -- Decidability and undecidability results for duration calculus -- Defining ?-typed ?-calculi by axiomatizing the typing relation -- The complexity of logic-based abduction -- Treewidth of chordal bipartite graphs -- On paths in networks with valves -- Scheduling interval ordered tasks in parallel

-- An $O(n)$ -worst-case-time solution to the granularity problem --
 The synthesis problem of Petri nets -- General refinement and
 recursion operators for the Petri Box calculus -- On fairness in
 distributed automated deduction -- Divide-and-conquer algorithms on
 the hypercube -- A first-order isomorphism theorem -- Splittings,
 robustness and structure of complete sets -- Defying upward and
 downward separation -- Counting, selecting, and sorting by query-
 bounded machines -- Cancellation in context-free languages:
 Enrichment by reduction -- Counting overlap-free binary words -- The
 limit set of recognizable substitution systems -- Partially commutative
 Lyndon words -- Parallel architectures: Design and efficient use --
 Weighted closest pairs -- Rectilinear path queries in a simple rectilinear
 polygon -- Parallel algorithm for the matrix chain product and the
 optimal triangulation problems (extended abstract) -- Multi-list
 ranking: complexity and applications -- Exact algorithms for a
 geometric packing problem (extended abstract) -- A decomposition
 theorem for probabilistic transition systems -- Local automata and
 completion -- Efficient compression of wavelet coefficients for smooth
 and fractal-like data -- On the equivalence of two-way pushdown
 automata and counter machines over bounded languages --
 Computability properties of low-dimensional dynamical systems --
 Fixed-parameter intractability II (extended abstract) -- Limits on the
 power of parallel random access machines with weak forms of write
 conflict resolution -- On using oracles that compute values --
 Multicounter automata with sublogarithmic reversal bounds --
 Structured operational semantics for concurrency and hierarchy -- The
 complexity of verifying functional programs -- Towards the formal
 design of self-stabilizing distributed algorithms -- Axiomatizations of
 temporal logics on trace systems -- Capabilities and complexity of
 computations with integer division -- Extended locally definable
 acceptance types -- Gap-definability as a closure property -- On the
 logical definability of some rational trace languages -- Solving systems
 of set constraints using tree automata -- Complement problems and
 tree automata in AC-like theories (extended abstract) -- Transparent
 (holographic) proofs -- Computing symmetric functions with AND/OR
 circuits and a single MAJORITY gate -- Threshold circuits for iterated
 multiplication: Using AC0 for free -- Circuits with monoidal gates -- A
 non-probabilistic switching lemma for the Sipser function -- Frontiers
 of feasible and probabilistic feasible Boolean manipulation with
 branching programs -- On syntactic congruences for λ -languages -- A
 polynomial time algorithm for the equivalence of two morphisms on λ -
 regular languages -- Locally threshold testable languages of infinite
 words -- Deterministic asynchronous automata for infinite traces --
 Recursive automata on infinite words -- A complexity theoretic
 approach to incremental computation -- Precise average case
 complexity -- The bit probe complexity measure revisited -- Language
 learning with some negative information -- Language learning with a
 bounded number of mind changes -- Efficient sharing of many secrets
 -- The KIV system a tool for formal program development -- 1st Grade
 — A system for implementation, testing and animation of graph
 algorithms -- The program verifier Tatzelwurm -- LEDA a library of
 efficient data types and algorithms -- Defining λ -typed λ -calculi by
 axiomatizing the typing relation.

Sommario/riassunto

This volume contains the proceedings of the tenth annual Symposium on Theoretical Aspects of Computer Science (STACS '93), held in Würzburg, February 25-27, 1993. The STACS symposia are held alternately in Germany and France, and organized jointly by the Special Interest Group for Theoretical Computer Science of the Gesellschaft für

Informatik (GI) and the Special Interest Group for Applied Mathematics of the Association Francaise des Sciences et Technologies de l'Information et des Syst mes (afcet). The volume includes the three invited talks which opened the three days of the symposium: "Causal and distributed semantics for concurrent processes" (I. Castellani), "Parallel architectures: design and efficient use" (B. Monien et al.), and "Transparent proofs" (L. Babai). The selection of contributed papers is organized into parts on: computational complexity, logic in computer science, efficient algorithms, parallel and distributed computation, language theory, computational geometry, automata theory, semantics and logic of programming languages, automata theory and logic, circuit complexity, omega-automata, non-classical complexity, learning theory and cryptography, and systems.
