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| Collana                 | Lecture notes in computer science ; ; 1644                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Disciplina              | 005.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Soggetti                | Programming languages (Electronic computers)<br>Machine theory<br>Formal languages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Nota di contenuto       | Invited Talks -- Generating Hard Instances of the Short Basis Problem -- Wide Area Computation -- Proof Techniques for Cryptographic Protocols -- Type Structure for Low-Level Programming Languages -- Real Computations with Fake Numbers -- A Model for Associative Memory, a Basis for Thinking and Consciousness -- Numerical Integration with Exact Real Arithmetic -- Observations about the Nature and State of Computer Science -- DNA Computing: New Ideas and Paradigms -- Online Data Structures in External Memory -- From Computational Learning Theory to Discovery Science -- Contributed Papers -- Bounded Depth Arithmetic Circuits: Counting and Closure -- Parametric Temporal Logic for "Model Measuring" -- Communicating Hierarchical State Machines -- Small Pseudo-Random Sets Yield Hard Functions: New Tight Explicit Lower Bounds for Branching Programs -- General Morphisms of Petri Nets (Extended Abstract) -- On Some Tighter Inapproximability Results (Extended Abstract) -- Decomposition and Composition of Timed Automata -- New Applications of the Incompressibility Method (Extended Abstract) -- Mobility Types for Mobile Ambients -- Protein Folding, the Levinthal |

Paradox and Rapidly Mixing Markov Chains -- Decidable Fragments of Simultaneous Rigid Reachability -- Text Compression Using Antidictionaries -- Non-interactive Zero-Knowledge: A Low-Randomness Characterization of NP (Extended Abstract) -- Timed Alternating Tree Automata: The Automata-Theoretic Solution to the TCTL Model Checking Problem -- Space-Time Tradeoffs for Graph Properties -- Boundedness of Reset P/T Nets -- Two-way finite state transducers and monadic second-order logic -- Partially Ordered Regular Languages for Graph Queries -- Deciding First-Order Properties of Locally Tree-Decomposable Graphs -- Comparison of Process Algebra Equivalences Using Formats -- Compact Routing Tables for Graphs of Bounded Genus (Extended Abstract) -- Computing LOGCFL Certificates -- Efficient Techniques for Maintaining Multidimensional Keys in Linked Data Structures (Extended Abstract) -- On the Complements of Partial  $k$ -Trees -- Approximation Results for Kinetic Variants of TSP -- Distributed Probabilistic Polling and Applications to Proportionate Agreement -- Bisimulation Equivalence Is Decidable for Normed Process Algebra (Extended abstract) -- A Framework for Decidable Metrical Logics -- On the Power of Las Vegas II. Two-Way Finite Automata -- Stable Marriage with Incomplete Lists and Ties -- Average-Case Complexity of Shellsort (Preliminary Version) -- Linear-Time Construction of Two-Dimensional Suffix Trees (Extended Abstract) -- A Connection between the Star Problem and the Finite Power Property in Trace Monoids (Extended Abstract) -- Two Techniques in the Area of the Star Problem -- Approximations by OBDDs and the Variable Ordering Problem -- Simulation Preorder on Simple Process Algebras -- Solos in Concert -- Shortest Anisotropic Paths on Terrains -- Relations between Local and Global Periodicity of Words (Extended Abstract) -- Efficient Merging, Construction, and Maintenance of Evolutionary Trees -- Formalizing a Lazy Substitution Proof System for  $\lambda$ -Calculus in the Calculus of Inductive Constructions -- Leader Election by  $d$  Dimensional Cellular Automata -- New Upper Bounds for MaxSat -- Polynomial and Rational Evaluation and Interpolation (with Structured Matrices) ? -- Low Redundancy in Static Dictionaries with  $O(1)$  Worst Case Lookup Time -- Finite Automata with Generalized Acceptance Criteria -- A Variant of the Arrow Distributed Directory with Low Average Complexity (Extended Abstract) -- Closed Freyd- and  $\omega$ -categories -- Typed Exceptions and Continuations Cannot Macro-Express Each Other -- Automata, Power Series, and Coinduction: Taking Input Derivatives Seriously (Extended Abstract) -- Accessing Multiple Sequences Through Set Associative Caches --  $T(A) = T(B)$ ? -- Many-Valued Logics and Holographic Proofs -- On the Complexity and Inapproximability of Shortest Implicant Problems -- The Wave Propagator Is Turing Computable -- An FPTAS for Agreeably Weighted Variance on a Single Machine (Extended Abstract) -- Erratum: Bulk-Synchronous Parallel Multiplication of Boolean Matrices.

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