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	Nota di contenuto	Philosophical issues in Kolmogorov complexity -- Circuit complexity and the expressive power of generalized first-order formulas -- One-message statistical Zero-Knowledge Proofs and space-bounded verifier -- Abelian squares are avoidable on 4 letters -- Polynomial size test sets for context-free languages -- Quasi-deterministic 0L systems -- On growing context-sensitive languages -- Numeration systems, linear recurrences, and regular sets -- The equality problem for rational series with multiplicities in the tropical semiring is undecidable -- Semi-commutations and rational expressions -- New results concerning synchronized finite automata -- A Greibach normal form for context-free graph grammars -- On reverse and general definite

tree languages -- Reductions to sets of low information content -- UP and the low and high hierarchies: A relativized separation -- Analytic analysis of algorithms -- How to count quickly and accurately: A unified analysis of probabilistic counting and other related problems -- The average CRI-length of a tree collision resolution algorithm in presence of multiplicity-dependent capture effects -- Polynomial hash functions are reliable -- Adaptive pattern matching -- Randomized interpolation and approximation of sparse polynomials stPreliminary version -- Two strikes against perfect phylogeny -- Disjunctive systems and L-Domains -- Optimal parallel algorithms for periods, palindromes and squares -- Near-perfect token distribution -- Fast integer merging on the EREW PRAM -- Approximation algorithms for graph augmentation -- Fast incremental planarity testing -- Maintenance of triconnected components of graphs -- Suboptimal cuts: Their enumeration, weight and number -- Gröbner bases: An introduction -- Buchberger's algorithm: The term rewriter's point of view -- Completion of rewrite systems with membership constraints -- A new metric between polygons, and how to compute it -- On nearest-neighbor graphs -- A tail estimate for Mulmuley's segment intersection algorithm -- Lower bounds on the complexity of simplex range reporting on a pointer machine -- Infinitary logic for computer science -- Characterization of temporal property classes -- Lazy Lambda calculus: Theories, models and local structure characterization -- Logic programming semantics made easy -- On the complexity of dataflow analysis of logic programs -- Comparison of abstract interpretations -- A proposed categorical semantics for Pure ML -- What good are digital clocks? -- Behavioural abstraction in TCCS -- Timing Petri Nets categorically -- Asynchronous cellular automata for infinite traces -- A trace semantics for Petri Nets -- Asynchronous communication of Petri Nets and the refinement of transitions -- A parametric approach to localities -- Proved trees -- Interfaces between languages for communicating systems -- Toward formal development of programs from algebraic specifications: Model-theoretic foundations -- Program composition via unification -- Barbed bisimulation -- Checking equivalences between concurrent systems of finite agents (Extended abstract) -- Testing preorders for probabilistic processes.

Sommario/riassunto	This volume presents the proceedings of the 19th International Colloquium onAutomata, Languages, and Programming (ICALP 92) in a series of meetings sponsored by the European Association for Theoretical Computer Science (EATCS). ICALP is a broadly based conference covering all aspects of theoretical computer science, including such topics as computability, automata, formal languages, term rewriting, analysis of algorithms, computational geometry, computational complexity, symbolic and algebraic computation, cryptography, data types and data structures, theory of databases and knowledge bases, semantics of programming languages, program specification, transformation and verification, foundations of logic programming, theory of logical design andlayout, parallel and distributed computation, theory of concurrency, and theory of robotics. The papers in the volume are grouped into thematic parts corresponding to their order of presentation at ICALP 92.