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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 520
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Soggetti	Computers Software engineering Architecture, Computer Algorithms Computer logic Theory of Computation Software Engineering/Programming and Operating Systems Computer System Implementation Computation by Abstract Devices Algorithm Analysis and Problem Complexity Logics and Meanings of Programs
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Nota di contenuto	Elimination of negation in term algebras -- Rewrite orderings and termination of rewrite systems -- On the faithfulness of formal models -- Models for concurrency -- On a hierarchy of file types and a tower of their theories -- Strong conjunction and intersection types -- Partial higher-order specifications -- Unification in incompletely specified theories: A case study -- Observing localities -- Abstract dynamic data types: A temporal logic approach -- Generating words by cellular automata -- Atomic refinement in process description languages -- Recognizable complex trace languages (abstract) -- Solving systems of linear diophantine equations: An algebraic approach -- A second-order pattern matching algorithm for the cube of typed λ -calculus -- The lazy

call-by-value λ -calculus -- The limit of split n -bisimulations for CCS agents -- Stochastic automata and length distributions of rational languages -- Towards a categorical semantics of type classes -- Single-path Petri nets -- The bisection problem for graphs of degree 4 (configuring transputer systems) -- Some results concerning 2-D on-line tessellation acceptors and 2-D alternating finite automata -- Infinite normal forms for non-linear term rewriting systems -- Two algorithms for approximate string matching in static texts -- Efficient constructions of test sets for regular and context-free languages -- The complexity of the reliable connectivity problem -- Pattern matching in order-sorted languages -- Two over three: a two-valued logic for software specification and validation over a three-valued predicate calculus -- A solution of the complement problem in associative-commutative theories -- A model for real-time systems -- On strict codes -- A decidable case of the semi-unification problem -- Maintaining dictionaries in a hierarchical memory -- Upper and lower bounds for certain GRAPH-ACCESSIBILITY-PROBLEMS on bounded alternating λ -BRANCHING PROGRAMS -- CCS dynamic bisimulation is progressing -- Syntax and semantics of a monotonic framework for non-monotonic reasoning -- On the cardinality of sets of infinite trees recognizable by finite automata -- Extending temporal logic by explicit concurrency -- An extensional partial combinatory algebra based on λ -terms -- Once more on order-sorted algebras -- Composition of two semi commutations -- An efficient decision algorithm for the uniform semi-unification problem extended abstract -- Different modifications of pointer machines and their computational power.

Sommario/riassunto

This volume contains the proceedings of the 16th International Symposium on Mathematical Foundations of Computer Science, MFCS '91, held in Kazimierz Dolny, Poland, September 9-13, 1991. The series of MFCS symposia, organized alternately in Poland and Czechoslovakia since 1972, has a long and well established tradition. The purpose of the series is to encourage high-quality research in all branches of theoretical computer science and to bring together specialists working actively in the area. Principal areas of interest in this symposium include: software specification and development, parallel and distributed computing, logic and semantics of programs, algorithms, automata and formal languages, complexity and computability theory, and others. The volume contains 5 invited papers by distinguished scientists and 38 contributions selected from a total of 109 submitted papers.
