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Disciplina	005.13/1
Soggetti	Software engineering Computers Programming languages (Electronic computers) Computer logic Mathematical logic Artificial intelligence Software Engineering/Programming and Operating Systems Theory of Computation Programming Languages, Compilers, Interpreters Logics and Meanings of Programs Mathematical Logic and Formal Languages Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di contenuto	Rewrite-based automated reasoning: Challenges ahead -- Fine-grained concurrent completion -- AC-complete unification and its application to theorem proving -- Superposition theorem proving for abelian groups represented as integer modules -- Symideal Gröbner bases -- Termination of constructor systems -- Dummy elimination in equational rewriting -- On proving termination by innermost termination -- A recursive path ordering for higher-order terms in ?-long ?-normal form -- Higher-order superposition for dependent types -- Higher-order narrowing with definitional trees -- Design of a proof

assistant -- A compiler for nondeterministic term rewriting systems -- Combinatory reduction systems with explicit substitution that preserve strong normalisation -- Confluence properties of extensional and non-extensional  $\lambda$ -calculi with explicit substitutions (extended abstract) -- On the power of simple diagrams -- Coherence for sharing proof nets -- Modularity of termination in term graph rewriting -- Confluence of terminating conditional rewrite systems revisited -- Applications of rewrite techniques in monoids and rings -- Compositional term rewriting: An algebraic proof of Toyama's theorem -- The first-order theory of one-step rewriting is undecidable -- An algorithm for distributive unification -- On the termination problem for one-rule semi-Thue system -- Efficient second-order matching -- Linear second-order unification -- Unification of higher-order patterns in a simply typed lambda-calculus with finite products and terminal type -- Decidable approximations of term rewriting systems -- Semantics and strong sequentially of priority term rewriting systems -- Higher-order families -- A new proof manager and graphic interface for the larch prover -- ReDuX 1.5: New facets of rewriting -- CiME: Completion modulo E -- Distributed larch prover (DLP): An experiment in parallelizing a rewrite-rule based prover -- EPIC: An equational language Abstract machine and supporting tools -- SPIKE-AC: A system for proofs by induction in Associative-Commutative theories -- On gaining efficiency in completion-based theorem proving.

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#### Sommario/riassunto

This book constitutes the refereed proceedings of the 7th International Conference on Rewriting Techniques and Applications, RTA-96, held in New Brunswick, NJ, USA, in July 1996. The 27 revised full papers presented in this volume were selected from a total of 84 submissions, also included are six system descriptions and abstracts of three invited papers. The topics covered include analysis of term rewriting systems, string and graph rewriting, rewrite-based theorem proving, conditional term rewriting, higher-order rewriting, unification, symbolic and algebraic computation, and efficient implementation of rewriting on sequential and parallel machines.

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