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Soggetti	Programming languages (Electronic computers) Computers Software engineering Computer logic Mathematical logic Computer science—Mathematics Programming Languages, Compilers, Interpreters Theory of Computation Software Engineering/Programming and Operating Systems Logics and Meanings of Programs Mathematical Logic and Formal Languages Symbolic and Algebraic Manipulation
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Nota di contenuto	On some mathematical logic contributions to rewriting techniques: Lost heritage -- Modularity of completeness revisited -- Automatic termination proofs with transformation orderings -- A termination ordering for higher order rewrite systems -- A complete characterization of termination of 0p 1q?1r 0s -- On narrowing, refutation proofs and constraints -- Completion for multiple reduction orderings -- Towards an efficient construction of test sets for deciding ground reducibility -- Term rewriting in contemporary resolution theorem proving -- ???=1 Optimizing optimal ?-calculus

implementations -- Substitution tree indexing -- Concurrent garbage collection for concurrent rewriting -- Lazy rewriting and eager machinery -- A rewrite mechanism for logic programs with negation -- Level-confluence of conditional rewrite systems with extra variables in right-hand sides -- A polynomial algorithm testing partial confluence of basic semi-Thue systems -- Problems in rewriting applied to categorical concepts by the example of a computational comonad -- Relating two categorical models of term rewriting -- Towards a domain theory for termination proofs -- Higher-order rewrite systems -- Infinitary lambda calculi and böhm models -- Proving the genericity lemma by leftmost reduction is simple -- (Head-)normalization of typeable rewrite systems -- Explicit substitutions with de bruijn's levels -- A restricted form of higher-order rewriting applied to an HDL semantics -- Rewrite systems for integer arithmetic -- General solution of systems of linear diophantine equations and inequations -- Combination of constraint solving techniques: An algebraic point of view -- Some independence results for equational unification -- Regular substitution sets: A means of controlling E-unification -- DISCOUNT: A system for distributed equational deduction -- ASTRE: Towards a fully automated program transformation system -- Parallel ReDuX ? PaReDuX -- STORM: A many-to-one associative-commutative matcher -- LEMMA: A system for automated synthesis of recursive programs in equational theories -- Generating polynomial orderings for termination proofs -- Disguising recursively chained rewrite rules as equational theorems, as implemented in the prover EFTTP Mark 2 -- Prototyping completion with constraints using computational systems -- Guiding term reduction through a neural network: Some preliminary results for the group theory -- Studying quasigroup identities by rewriting techniques: Problems and first results -- Problems in rewriting III.

Sommario/riassunto

This volume presents the proceedings of the Sixth International Conference on Rewriting Techniques and Applications, RTA-95, held in Kaiserslautern, Germany in April 1995. The 27 full revised papers were selected from a total of 87 submissions. In addition there are 9 system descriptions and two problem sets, one contributed by Mark E. Stickel and Hantao Zhang and another by Nachum Dershowitz, Jean-Pierre Jouannaud and Jan Willem Klop. The volume addresses all current aspects of rewriting techniques and their applications and thus defines the state-of-the-art in this active field of research.
