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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 690
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Soggetti	Rewriting systems (Computer science) Computer programming Algorithms Electronic books.
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Formato	Materiale a stampa
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Rewrite techniques in theorem proving -- Redundancy criteria for constrained completion -- Bi-rewriting, a term rewriting technique for monotonic order relations -- A case study of completion modulo distributivity and Abelian groups -- A semantic approach to order-sorted rewriting -- Distributing equational theorem proving -- On the correctness of a distributed memory Gröbner basis algorithm -- Improving transformation systems for general E-unification -- Equational and membership constraints for infinite trees -- Regular path expressions in feature logic -- Proving properties of typed lambda terms: Realizability, covers, and sheaves -- Some lambda calculi with categorical sums and products -- Paths, computations and labels in the $\lambda$ -calculus -- Confluence and superdevelopments -- Relating graph and term rewriting via Böhm models -- Topics in termination -- Total termination of term rewriting -- Simple termination is difficult -- Optimal normalization in orthogonal term rewriting systems -- A graph reduction approach to incremental term rewriting -- Generating tables for bottom-up matching -- On some algorithmic problems for groups and monoids -- Combination techniques and decision problems for

disunification -- The negation elimination from syntactic equational formula is decidable -- Encompassment properties and automata with constraints -- Recursively defined tree transductions -- AC complement problems: Satisfiability and negation elimination -- A precedence-based total AC-compatible ordering -- Extension of the associative path ordering to a chain of associative commutative symbols -- Polynomial time termination and constraint satisfaction tests -- Linear interpretations by counting patterns -- Some undecidable termination problems for semi-Thue systems -- Saturation of first-order (constrained) clauses with the Saturate system -- MERILL: An equational reasoning system in standard ML -- Reduce the redex ? ReDuX -- Agg — An implementation of algebraic graph rewriting -- Smaran: A congruence-closure based system for equational computations -- LAMBDALG: Higher order algebraic specification language -- More problems in rewriting.

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### Sommario/riassunto

This volume contains the proceedings of RTA-93, the fifth International Conference on Rewriting Techniques and Applications, held in Montreal, Canada, in June 1993. The volume includes three invited lectures, "Rewrite techniques in theorem proving" (L. Bachmair), "Proving properties of typed lambda terms: realizability, covers, and sheaves" (J. Gallier), and "On some algorithmic problems for groups and monoids" (S.J. Adian), together with 29 selected papers, 6 system descriptions, and a list of open problems in the field. The papers cover many topics: term rewriting; termination; graph rewriting; constraint solving; semantic unification, disunification and combination; higher-order logics; and theorem proving, with several papers on distributed theorem proving, theorem proving with constraints and completion.

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