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Descrizione fisica	1 online resource (VIII, 402 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 533
Disciplina	004
Soggetti	Mathematical logic Applied mathematics Engineering mathematics Computers Computer logic Algorithms Mathematical Logic and Foundations Applications of Mathematics Theory of Computation Logics and Meanings of Programs Mathematical Logic and Formal Languages Algorithm Analysis and Problem Complexity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Monadic second order logic, tree automata and forbidden minors -- On the reduction theory for average case complexity -- From prolog algebras towards WAM-A mathematical study of implementation -- A formal operational semantics for languages of type Prolog III -- Efficiency considerations on goal-directed forward chaining for logic programs -- Decision problems for tarski and presburger arithmetics extended with sets -- A fast garbage collection algorithm for WAM — based PROLOG -- A resolution variant deciding some classes of clause

sets -- Subclasses of quantified boolean formulas -- Algorithmic proof with diminishing resources part 1 -- Cutting plane versus frege proof systems -- RAM with compact memory: a realistic and robust model of computation -- Randomness and turing reducibility restraints -- Towards an efficient tableau proof procedure for multiple-valued logics -- Interactive proof systems: Provers, rounds, and error bounds -- Logics for belief dependence -- A generalization of stability and its application to circumscription of positive introspective knowledge -- The complexity of adaptive error-correcting codes -- Ramsey's theorem in bounded arithmetic -- Nontrivial lower bounds for some NP-problems on directed graphs -- Expansions and models of autoepistemic theories -- On the existence of fixpoints in moore's autoepistemic logic and the non-monotonic logic of McDermott and Doyle -- On the tracking of loops in automated deductions -- The gap-language-technique revisited.

Sommario/riassunto

The workshop Computer Science Logic '90 was held at the Max-Planck-Haus in Heidelberg, Germany, October 1-5, 1990. It was the fourth in a series of workshops, following CSL '89 at the University of Kaiserslautern (see LNCS 440), CSL '88 at the University of Duisberg (see LNCS 385), and CSL '87 at the University of Karlsruhe (see LNCS 329). This volume contains 24 papers, chosen by means of a review procedure from the 35 papers presented at the workshop, some of which were invited and some selected from a total of 89 submissions. The papers cover a wide range of topics arising from the applications of logic to computer science.
