1. Record Nr.   UNISA996466137703316

   Titolo   Logic Programming and Automated Reasoning [[electronic resource]] :
                     4th International Conference, LPAR'93, St.Petersburg, Russia, July 13-
                     20, 1993. Proceedings / / edited by Andrei Voronkov

   Pubbl/distr/stampa Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer,
                     , 1993

   ISBN   3-540-47830-2

   Edizione   [1st ed. 1993.]

   Descrizione fisica 1 online resource (XIV, 394 p.)

   Collana   Lecture Notes in Artificial Intelligence ; ; 698

   Disciplina   006.3

   Soggetti   Artificial intelligence
                     Mathematical logic
                     Artificial Intelligence
                     Mathematical Logic and Formal Languages
                     Mathematical Logic and Foundations

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

   Note generali   Bibliographic Level Mode of Issuance: Monograph

   Nota di contenuto Entailment and disentailment of order-sorted feature constraints --
                     Computing extensions of default logic — Preliminary report -- Prolog
                     with arrays and bounded quantifications -- Linear 0–1 inequalities and
                     extended clauses -- Search space pruning by checking dynamic term
                     growth -- A proof search system for a modal substructural logic based
                     on labelled deductive systems -- Consistency checking of automata
                     functional specifications -- Yet another application for Toupie:
                     Verification of mutual exclusion algorithms -- Parsing with DCG-terms
                     -- A first order resolution calculus with symmetries -- Ordered
                     paramodulation and resolution as decision procedure -- Static analysis
                     of Prolog with cut -- A new type theory for representing logics --
                     Verification of Switch-level designs with many-valued logic -- Deciding
                     in HFS-theory via linear integer programming -- The completion of
                     typed logic programs and SLDNF-resolution -- Increasing the
                     versatility of heuristic based theorem provers -- Sequentialization of
                     parallel logic programs with mode analysis -- Refinements and
                     extensions of model elimination -- Executable specifications based on
                     dynamic algebras -- Generic resolution in propositional modal systems

-- Optimized translation of multi modal logic into predicate logic -- Default reasoning with a constraint resolution principle -- Non-clausal deductive techniques for computing prime implicants and prime implicates -- Unification under one-sided distributivity with a multiplicative unit -- Unification in Order-Sorted Logic with Term Declarations -- Extracting inheritance hierarchies from Prolog programs: A system based on the inference of type relations -- A comparison of mechanisms for avoiding repetition of subdeductions in chain format linear deduction systems -- Neutralization and preemption in extended logic programs -- MULTLOG: A system for axiomatizing many-valued logics -- SKIL: A system for programming with proofs -- Reasoning about the reals: the marriage of HOL and maple -- System description of LAMBDALG -- Mixing metafor -- A complete axiom system for isomorphism of types in closed categories -- Reasoning, modeling, and component-based technology.

Sommario/riassunto	LPAR is an international conference series aimed at bringing together researchers interested in logic programming and automated reasoning. The research in logic programming grew out of the research in automated reasoning in the early 1970s. Later, the implementation techniques known from logic programming were used in implementing theorem proving systems. Results from both fields applied to deductive databases. This volume contains the proceedings of LPAR '93, which was organized by the Russian Association for Logic Programming. The volume contains 35 contributed papers selected from 84 submissions, together with an invited paper by Peter Wegner entitled "Reasoning versus modeling in computer science".