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Collana	Lecture Notes in Artificial Intelligence ; ; 838
Disciplina	006.3/01/5113
Soggetti	Artificial intelligence Mathematical logic Computer logic Artificial Intelligence Mathematical Logic and Formal Languages Logics and Meanings of Programs
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Nota di contenuto	From Carnap's modal logic to autoepistemic logic -- Compactness properties of nonmonotonic inference operations -- Around a powerful property of circumscriptions -- The computational value of joint consistency -- Belief dynamics, abduction, and databases -- On the logic of theory base change -- Belief, provability, and logic programs -- Revision specifications by means of programs -- Revision of non-monotonic theories -- A complete connection calculus with rigid E-unification -- Equality and constrained resolution -- Efficient strategies for Automated reasoning in modal logics -- TAS-D++: Syntactic trees transformations for Automated Theorem Proving -- A unification of ordering refinements of resolution in classical logic -- Two logical dimensions -- Prioritized autoepistemic logic -- Adding priorities and specificity to default logic -- Viewing hypothesis theories as constrained graded theories -- Temporal theories of reasoning -- Reasoning about knowledge on computation trees -- Propositional state event logic -- Description Logics with inverse roles, functional

restrictions, and n-ary relations -- On the concept of generic object: A nonmonotonic reasoning approach and examples -- Autoepistemic logic of minimal beliefs -- How to use modalities and sorts in Prolog -- Towards resource handling in logic programming: The PPL framework and its semantics -- Extending Horn clause theories by reflection principles.

Sommario/riassunto

This book constitutes the proceedings of the 1994 European Workshop on Logics in Artificial Intelligence, held at York, UK in September 1994. The 24 papers presented were selected from a total of 79 submissions; in addition there are two abstracts of invited talks and one full paper of the invited presentation by Georg Gottlob. The papers point out that, with the depth and maturity of formalisms and methodologies available in AI today, logics provide a formal basis for the study of the whole field of AI. The volume offers sections on nonmonotonic reasoning, automated reasoning, logic programming, knowledge representation, and belief revision.
