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Collana	Lecture Notes in Artificial Intelligence ; ; 1085
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Soggetti	Artificial intelligence Mathematical logic Artificial Intelligence Mathematical Logic and Foundations Mathematical Logic and Formal Languages
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Nota di contenuto	Integrating statistical audit evidence with belief function theory -- A comparative survey of default logic variants -- Modal logics with relative accessibility relations -- Geometrical structures and modal logic -- A unified framework for hypothetical and practical reasoning (1): Theoretical foundations -- A unified framework for hypothetical and practical reasoning (2): Lessons from medical applications -- General domain circumscription and its first-order reduction -- Reasoning about rational, but not logically omniscient agents (extended abstract) -- Specification of nonmonotonic reasoning -- Intelligent agents in the Situation Calculus: An application to user modelling -- Talkin'bout consistency, or: When logically possible becomes possible -- The analysis and evaluation of legal argumentation from a pragma-dialectical perspective -- Reasoning about reasoning -- A resolution-based proof method for temporal logics of knowledge and belief -- A methodology for iterated theory change -- A formal framework for causal modeling and argumentation -- Goals in argumentation -- An abductive proof procedure for conditional logic programming --

Commands in dialogue logic -- Ideal and real belief about belief -- Analogical reasoning of organic reactions based on the structured compound-reaction diagram -- Labelling ideality and subideality -- Mind, morals, and reasons -- Aristotle, Whately, and the taxonomy of fallacies -- Nonmonotonic reasoning with multiple belief sets -- SEdit — Graphically validating technical systems -- The need for a dialectical tier in arguments -- Two kinds of non-monotonic analogical inference -- The normative reconstruction of analogy argumentation in judicial decisions: A pragma-dialectical perspective -- Formal reasoning about modules, reuse and their correctness -- A tableau calculus for first-order branching time logic -- Possible world semantics for analogous reasoning -- Using temporary integrity constraints to optimize databases -- Graded inheritance nets for knowledge representation -- Defining normative systems for qualitative argumentation -- Complex argumentation in judicial decisions. Analysing conflicting arguments -- Combining partitions and modal logic for user modeling -- Reason in a changing world -- A system for defeasible argumentation, with defeasible priorities -- Modal logic for modelling actions and agents -- Formalization of reasoning about default action (preliminary report) -- An architecture for argumentative dialogue planning -- Skeptical query-answering in Constrained Default Logic -- Type theoretic semantics for SemNet -- From syllogisms to audiences: The prospects for logic in a rhetorical model of argumentation -- Human reasoning with negative defaults -- On the semantics of the unknown -- System J — Revision entailment -- Deep disagreements and public demoralization -- Practical reasoning with procedural knowledge -- Towards the assessment of logics for concurrent actions -- Default reasoning and belief revision in the CIN Project -- Mechanizing multi-agent reasoning with belief contexts -- Arguments and mental models: A position paper -- Argumentation and decision making: A position paper -- The implementation of LENA -- The implementation of CondLP -- How to reason about akratic action practically?.

Sommario/riassunto

This book constitutes the refereed proceedings of the International Conference on Formal and Applied Practical Reasoning, FAPR '96, held in Bonn, Germany, in June 1996. The 51 revised full papers included in the book together with eight posters were carefully selected for presentation at the conference. The book addresses current aspects of the highly interdisciplinary area of practical reasoning in artificial intelligence, philosophy, psychology, linguistics, software engineering, intelligent systems, and industrial applications. Among the topics addressed are user modeling, belief, legal reasoning, argumentation, dialogue logic, default reasoning, analogy, metareasoning, temporal and procedural reasoning, and many others.
