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Collana	Lecture Notes in Artificial Intelligence ; ; 1847
Disciplina	006.3/33
Soggetti	Artificial intelligence Programming languages (Electronic computers) Logic, Symbolic and mathematical Artificial Intelligence Programming Languages, Compilers, Interpreters Mathematical Logic and Formal Languages
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Invited Lectures -- Tableau Algorithms for Description Logics -- Modality and Databases -- Local Symmetries in Propositional Logic -- Comparison -- Design and Results of TANCS-2000 Non-classical (Modal) Systems Comparison -- Consistency Testing: The RACE Experience -- Benchmark Analysis with FaCT -- MSPASS: Modal Reasoning by Translation and First-Order Resolution -- TANCS-2000 Results for DLP -- Evaluating *SAT on TANCS 2000 Benchmarks -- Research Papers -- A Labelled Tableau Calculus for Nonmonotonic (Cumulative) Consequence Relations -- A Tableau System for Gödel- Dummett Logic Based on a Hypersequent Calculus -- An Analytic Calculus for Quantified Propositional Gödel Logic -- A Tableau Method for Inconsistency-Adaptive Logics -- A Tableau Calculus for Integrating First-Order and Elementary Set Theory Reasoning -- Hypertableau and Path-Hypertableau Calculi for some Families of Intermediate Logics -- Variants of First-Order Modal Logics -- Complexity of Simple Dependent Bimodal Logics -- Properties of Embeddings from Int to S4

-- Term-Modal Logics -- A Subset-Matching Size-Bounded Cache for Satisfiability in Modal Logics -- Dual Intuitionistic Logic Revisited -- Model Sets in a Nonconstructive Logic of Partial Terms with Definite Descriptions -- Search Space Compression in Connection Tableau Calculi Using Disjunctive Constraints -- Matrix-Based Inductive Theorem Proving -- Monotonic Preorders for Free Variable Tableaux -- The Mosaic Method for Temporal Logics -- Sequent-Like Tableau Systems with the Analytic Superformula Property for the Modal Logics KB, KDB, K5, KD5 -- A Tableau Calculus for Equilibrium Entailment -- Towards Tableau-Based Decision Procedures for Non-Well-Founded Fragments of Set Theory -- Tableau Calculus for Only Knowing and Knowing At Most -- A Tableau-Like Representation Framework for Efficient Proof Reconstruction -- The Semantic Tableaux Version of the Second Incompleteness Theorem Extends Almost to Robinson's Arithmetic Q -- System Descriptions -- Redundancy-Free Lemmatization in the Automated Model-Elimination Theorem Prover AI-SETHEO -- E-SETHEO: An Automated³ Theorem Prover.

Sommario/riassunto

This book constitutes the refereed proceedings of the International Conference on Automated Reasoning with Analytic Tableaux and Related Methods, TABLEAUX 2000, held in St Andrews, Scotland, UK, in July 2000. The 23 revised full papers and 2 system descriptions presented were carefully reviewed and selected from 42 submissions. Also included are 3 invited lectures and 6 nonclassical system comparisons. All current issues surrounding the mechanization of reasoning with tableaux and similar methods are addressed - ranging from theoretical foundations to implementation, systems development, and applications, as well as covering a broad variety of logical calculi.