

1. Record Nr.	UNINA9910143863903321
Titolo	Automated Reasoning with Analytic Tableaux and Related Methods : International Conference, TABLEAUX 2003, Rome, Italy, September 9-12, 2003. Proceedings / / edited by Marta Cialdea Mayer, Fiora Pirri
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2003
ISBN	3-540-45206-0
Edizione	[1st ed. 2003.]
Descrizione fisica	1 online resource (X, 270 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 2796
Disciplina	006.3
Soggetti	Artificial intelligence Number theory Computer science Computer programming Software engineering Logic, Symbolic and mathematical Artificial Intelligence Number Theory Computer Science, general Programming Techniques Software Engineering Mathematical Logic and Formal Languages
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Short Abstracts of Invited Lectures -- Non Commutative Logic: A Survey (Abstract) -- Dynamical Method in Algebra: A Survey (Abstract) -- Automated Theorem Proving in Generation, Verification, and Certification of Safety Critical Code (Abstract) -- Research Papers -- Tableaux with Four Signs as a Unified Framework -- A Labelled Sequent-Calculus for Observation Logic -- Bounded ?ukasiewicz Logics -- Parallel Dialogue Games and Hypersequents for Intermediate Logics -- Simplification Rules for Constrained Formula Tableaux -- Tableau Calculi for Preference-Based Conditional Logics -- A General Tableau

Method for Propositional Interval Temporal Logics -- Universal Variables in Disconnection Tableaux -- A Tableau Algorithm for Reasoning about Concepts and Similarity -- XPath and Modal Logics of Finite DAG's -- Tableaux, Path Dissolution, and Decomposable Negation Normal Form for Knowledge Compilation -- A More Efficient Tableaux Procedure for Simultaneous Search for Refutations and Finite Models -- Automatic Abstraction of Equations in a Logic of Equality -- A Free Variable Sequent Calculus with Uniform Variable Splitting -- System Description -- The Tableaux Work Bench -- Decision Procedures for the Propositional Cases of Second Order Logic and Z Modal Logic Representations of a First Order L-Predicate Nonmonotonic Logic -- Logistica 2.0: A Technology for Implementing Automatic Deduction Systems -- Fair Constraint Merging Tableaux in Lazy Functional Programming Style -- SOLAR: A Consequence Finding System for Advanced Reasoning -- CondLean: A Theorem Prover for Conditional Logics.

---

#### Sommario/riassunto

This book constitutes the refereed proceedings of the International Conference on Automated Reasoning with Analytic Tableaux and Related Methods, TABLEAUX 2003, held in Rome, Italy in September 2003. The 20 revised full papers presented were carefully reviewed and selected for inclusion in the book. All current issues surrounding the mechanization of logical reasoning with tableaux and similar methods are addressed in the context of a broad variety of logic calculi.

---