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Nota di contenuto	Invited Papers -- Proof Analysis by Resolution -- Using Linear Logic to Reason about Sequent Systems -- Research Papers -- A Schütte-Tait Style Cut-Elimination Proof for First-Order Gödel Logic -- Tableaux for Quantified Hybrid Logic -- Tableau-Based Automated Deduction for Duration Calculus -- Linear Time Logic, Conditioned Models, and Planning with Incomplete Knowledge -- A Simplified Clausal Resolution Procedure for Propositional Linear-Time Temporal Logic -- Modal Nonmonotonic Logics Revisited: Efficient Encodings for the Basic Reasoning Tasks -- Tableau Calculi for the Logics of Finite k-Ary Trees -- A Model Generation Style Completeness Proof for Constraint Tableaux with Superposition -- Implementation and Optimisation of a Tableau Algorithm for the Guarded Fragment -- Lemma and Model Caching in Decision Procedures for Quantified Boolean Formulas --

Integration of Equality Reasoning into the Disconnection Calculus -- Analytic Sequent Calculi for Abelian and ?ukasiewicz Logics -- Analytic Tableau Systems for Propositional Bimodal Logics of Knowledge and Belief -- A Confluent Theory Connection Calculus -- On Uniform Word Problems Involving Bridging Operators on Distributive Lattices -- Question Answering: From Partitions to Prolog -- A General Theorem Prover for Quantified Modal Logics -- Some New Exceptions for the Semantic Tableaux Version of the Second Incompleteness Theorem -- A New Indefinite Semantics for Hilbert's Epsilon -- A Tableau Calculus for Combining Non-disjoint Theories -- System Descriptions Papers -- LINK: A Proof Environment Based on Proof Nets -- DCTP 1.2 — System Abstract.

Sommario/riassunto

This volume contains the research papers presented at the International Con- rence on Automated Reasoning with Analytic Tableaux and Related Methods (TABLEAUX 2002) held on July 30 - August 1, 2002 in Copenhagen, Denmark, in the context of the third Federated Logic Conference (FLoC 2002). This c- ference was the continuation of international meetings on the same topic held in Lautenbach (1992), Marseille (1993), Abingdon (1994), St. Goar (1995), Ter- sini (1996), Pont-`a-Mousson (1997), Oisterwijk (1998), Saratoga Springs (1999), and St Andrews (2000). In 2001 TABLEAUX was part of IJCAR 2001 in - ena. The frame of FLoC 2002 guaranteed once again close contact to the larger Theorem Proving and Logic in Computer Science community. This was in par- cular witnessed by the talk by Matthias Baaz, jointly invited by CADE-18 and TABLEAUX 2002. Tableaux and related methods have been found to be a convenient formalism for automating deduction in various non-standard logics as well as in classical logic. This is nicely illustrated by the wide scope of logics that are covered by the papers collected in this volume: among them are linear logic, temporal - gics, various modal logics, including hybrid logic and multi- modal logics, fuzzy logics like G¨odel- andLuk asiewicz logics, various intermediate logics, quanti'ed boolean logic, and, of course, classical ? rst-order logic in various formats.