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Nota di contenuto	Invited Talks -- Query Processing in Peer-to-Peer Systems: An Epistemic Logic Approach -- Description Logics in Ontology Applications -- Automated Reasoning in the Context of the Semantic Web -- Formal Versus Rigorous Mathematics: How to Get Your Papers Published -- Research Papers -- Consistency of Variable Splitting in Free Variable Systems of First-Order Logic -- On the Dynamic Increase of Multiplicities in Matrix Proof Methods for Classical Higher-Order Logic -- A Tableau-Based Decision Procedure for Right Propositional Neighborhood Logic -- Cyclic Proofs for First-Order Logic with Inductive Definitions -- A Tableau-Based Decision Procedure for a Fragment of Graph Theory Involving Reachability and Acyclicity -- Embedding Static Analysis into Tableaux and Sequent Based Frameworks -- A Calculus for Type Predicates and Type Coercion -- A Tableau Calculus with Automaton-Labelled Formulae for Regular

Grammar Logics -- Comparing Instance Generation Methods for Automated Reasoning -- An Order-Sorted Quantified Modal Logic for Meta-ontology -- A Redundancy Analysis of Sequent Proofs -- A Tableau Algorithm for Description Logics with Concrete Domains and GCIs -- The Space Efficiency of OSHL -- Efficient Query Processing with Compiled Knowledge Bases -- Clausal Connection-Based Theorem Proving in Intuitionistic First-Order Logic -- Automatic 'Descente Infinie' Induction Reasoning -- A Decision Procedure for the Alternation-Free Two-Way Modal λ -Calculus -- On the Partial Respects in Which a Real Valued Arithmetic System Can Verify Its Tableaux Consistency -- System Descriptions -- Pdk: The System and Its Language -- Proof Output and Transformation for Disconnection Tableaux -- LoTREC: Logical Tableaux Research Engineering Companion -- A Tableau-Based Explainer for DL Subsumption -- CondLean 3.0: Improving CondLean for Stronger Conditional Logics -- The ILTP Library: Benchmarking Automated Theorem Provers for Intuitionistic Logic -- Unit Propagation in a Tableau Framework.

Sommario/riassunto

This volume contains the research papers presented at the International Conference on Automated Reasoning with Analytic Tableaux and Related Methods (TABLEAUX2005) held September 14-17, 2005 in Koblenz, Germany. This conference was the fourteenth in a series of international meetings since 1992 (listed on page IX). It was part of the International Conference Summer Koblenz 2005, which included conferences covering a broad spectrum of topics and interesting fields of application for tableau-based methods: artificial intelligence (KI), multi-agent systems (MATES), automated reasoning and knowledge representation (FTP), and software engineering and formal methods (SEFM). The Program Committee of TABLEAUX 2005 received 46 submissions from 16 countries. After each paper was reviewed by three referees, and an intensive discussion on the borderline papers was held during the online meeting of the Program Committee, 18 research papers and 7 system descriptions were accepted based on originality, technical soundness, presentation, and relevance. I wish to sincerely thank all the authors who submitted their work for consideration. And I would like to thank the Program Committee members and other referees for their great effort and professional work in the review and selection process. Their names are listed on the following pages. In addition to the contributed papers, the program included four excellent keynote talks. I am grateful to Prof. Diego Calvanese (Free University of Bolzano, Italy), Prof. Ian Horrocks (University of Manchester, UK), Prof. Hans Jürgen Ohlbach (Ludwig Maximilian University, Munich, Germany), and Prof. Erik Rosenthal (University of New Haven, USA) for accepting the invitation to address the conference.