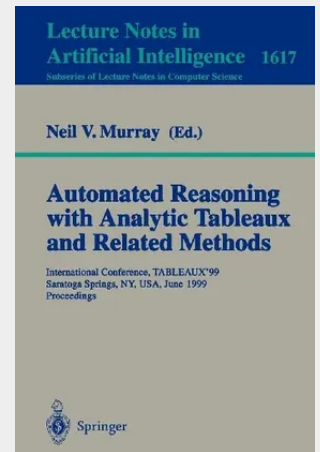


Automated Reasoning with Analytic Tableaux and Related Methods

This volume contains a selection of papers presented at the International Conference on Analytic Tableaux and Related Methods (TABLEAUX'99) held on June 7-11, 1999 at the Inn at Saratoga, Saratoga Springs, NY, USA. This conference was the continuation of international meetings on Theorem Proving with Analytic Tableaux and Related Methods held in Lautenbach near Karlsruhe (1992), Marseille (1993), Abingdon near Oxford (1994), St. Goar near Koblenz (1995), Terrasini near Palermo (1996), Pont-a-Mousson near Nancy (1997), and Oisterwijk near Tilburg (1998). TABLEAUX'99 marks the first time the conference has been held in North America. Tableau and related methods have been found to be convenient and effective for automating deduction in various non-standard logics as well as in classical logic. Examples taken from this meeting alone include temporal, description, tense, quantum, modal, projective, hybrid, intuitionistic, and linear logics. Areas of application include verification of software and computer systems, deductive databases, knowledge representation and its required inference engines, and system diagnosis. The conference brought together researchers interested in all aspects – theoretical foundations, implementation techniques, systems development and applications – of the mechanization of reasoning with tableaux and related methods.

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