

Foreword

This volume contains the main papers presented at the International Conference on Analytic Tableaux and Related Methods (TABLEAUX 2000) held on July 3–7, 2000 in St Andrews, Scotland. This conference succeeded other meetings on the same topic held in Lautenbach (1992), Marseille (1993), Abingdon (1994), St Goar (1995), Terrasini (1996), Pont-à-Mousson (1997), Oisterwijk (1998) and Saratoga Springs (1999).

Tableaux and related methods, such as Gentzen calculi, are convenient and effective for automating deduction not just in classical logic but also in various non-standard logics. Examples taken from this meeting alone include temporal, description, non-monotonic, tense, modal, epistemic, fuzzy and intuitionistic logics. Areas of application include verification of software and computer systems, deductive databases, knowledge representation and system diagnosis. The conference brought together researchers interested in all aspects – theoretical foundations, implementation techniques, systems development, experimental comparison and applications – of the automation of reasoning by means of tableaux or related methods.

Each research paper was formally evaluated by three referees, mainly members of the programme committee. From the 42 submissions received, 23 original *research papers* and 2 original *system descriptions* were chosen by the programme committee for presentation at the conference and for inclusion in these proceedings, together with the 3 invited lectures. Also included are a summary of the non-classical systems *Comparison (TANCS)*, descriptions of the Comparison entries, and the titles and authors of *position papers* and *tutorials*, which were also presented at the conference. Eight systems designers expressed interest for *TANCS*: two abandoned submission plans because of inefficiency and one because of unsoundness. All submitted systems were installed (a most painful process) and checked for soundness: submitted data were sampled for coherence.

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