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Automated Reasoning with Analytic Tableaux and Related Methods

International Conference, TABLEAUX'97
Pont-à-Mousson, France, May 13-16, 1997
Proceedings

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Foreword

The present volume contains the papers presented at the International Conference TABLEAUX'97 – Analytic Tableaux and Related Methods, held May 13 – 16, 1997 in Pont-à-Mousson (Abbaye des Prémontrés), France. This conference was a continuation of the international workshop 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), and Terrasini near Palermo (1996).

There were 49 papers submitted to TABLEAUX'97: 43 full papers, 5 system descriptions, and 1 position paper. Among these, 22 full papers and 2 system descriptions were selected for presentation at the conference and for inclusion in these proceedings together with two invited lectures. In addition, there were 3 tutorials and a presentation of 7 position papers. In fact TABLEAUX'97 attracted interest from many parts of the world with papers submitted from: Australia, Austria, Belgium, Canada, China, England, France, Germany, Italy, Japan, Lithuania, Netherlands, Palestine, Poland, Portugal, Scotland, Slovakia, Spain, USA, and Yugoslavia.

Given the increased interest in tableaux-based theorem proving and its applications, the conference intended to bring together researchers interested in all the aspects of mechanization of reasoning with tableaux and related methods (sequent calculi, connection method, model elimination,...) and working on theoretical foundations of methods, implementation techniques, system development, and applications. Interestingly enough, the spectrum of logics dealt with by the papers covers classical logic and several non-classical logics – including modal, intuitionistic, many-valued, and temporal logic.

Together with papers pertaining to the traditional domain of tableaux reasoning, the volume also contains papers dealing with applications to different domains of computer science and with other approaches of automated reasoning.

Finally, I would like to thank all the people who contributed to the success of the conference TABLEAUX'97, those responsible for local arrangements, the program committee for its efficient and rigorous scientific work, all the referees, the authors for their contributions and efforts, the invited speakers Ryuzo Hasegawa and Grigori Mints, the organizers of tutorials, and all the sponsors who made it possible to organize this conference in the *Abbaye des Prémontrés*.

Didier Galmiche
TABLEAUX'97 Program Chair

March 1997

Previous Tableaux Workshops

1992	Lautenbach, Germany	1993	Marseille, France
1994	Abingdon, England	1995	St. Goar, Germany
1996	Terrasini, Italy		

Invited speakers

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G. Mints	Stanford University, USA

Program Chair

D. Galmiche	CRIN-CNRS, UHP Nancy 1, France

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Position Papers

The regular conference program included the presentation of seven position papers. Informal proceedings containing these papers appeared as the internal scientific report CRIN 97-R-030 at CRIN-CNRS, Campus Scientifique, BP 239, 54506 Vandœuvre-les-Nancy Cedex, France.

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Stefan Gerberding

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