CADE-21

The 21^{st} Conference on Automated Deduction

4th International Verification Workshop

VERIFY'07

Editor:

Bernhard Beckert

Bremen, Germany, July 15–16, 2007

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Preface

The VERIFY workshop series aims at bringing together people who are interested in the development of safety and security critical systems, in formal methods, in the development of automated theorem proving techniques, and in the development of tool support. Practical experiences gained in realistic verifications are of interest to the automated theorem proving community and new theorem proving techniques should be transferred into practice. The overall objective of the VERIFY workshops is to identify open problems and to discuss possible solutions under the theme "What are the verification problems? What are the deduction techniques?".

This volume contains the research papers presented at the *4th International Verification Workshop* (VERIFY'07) held July 15–16, 2007 in Bremen, Germany. This workshop was the 4th in a series of international meetings since 2002. It was affiliated with the *21st Conference on Automated Deduction* (CADE-21).

Each paper submitted to the workshop was reviewed by three referees, and an intensive discussion on the borderline papers was held during the online meeting of the Program Committee. 13 research papers 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 three excellent keynote talks. I am grateful to Prof. Cesare Tinelli (The University of Iowa, USA), Prof. Tobias Nipkow (TU München, Germany), and Prof. Aaron Stump (Washington University in St. Louis, USA) for accepting the invitation to address the workshop.

July 2007 Bernhard Beckert

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