SMT 2019 Preface

Preface

This volume constitutes informal workshop proceedings and contains the papers presented at SMT 2019: 17th International Workshop on Satisfiability Modulo Theories held on July 7-8, 2019 in Lisbon.

The aim of the workshop is to bring together researchers and users of SMT tools and techniques. The papers in this volume include both original research papers as well as more extended abstracts and preliminary reports of work in progress that may be of interest to the SMT community. Each of these papers were reviewed by three reviewers. In addition, this volume includes descriptions of each of the tools participating in the 14th International Satisfiability Modulo Theories Competition (SMT-COMP 2019).

Though not in this volume the SMT workshop included presentations describing recent work published elsewhere of interest to the SMT community. Each of these submissions were evaluated by three reviewers. The presentation only papers include:

- Extending SMT solvers to Higher-Order Logic Haniel Barbosa, Andrew Reynolds, Daniel El Ouraoui, Cesare Tinelli and Clark Barrett
- SPASS-SATT: a CDCL(LA) Solver
 Martin Bromberger, Mathias Fleury, Simon Schwarz and Christoph Weidenbach
- Towards Bit-Width-Independent Proofs in SMT Solvers
 Aina Niemetz, Mathias Preiner, Andrew Reynolds, Yoni Zohar, Clark Barrett and Cesare
 Tinelli
- High-Level Abstractions for Simplifying Extended String Constraints in SMT Andrew Reynolds, Andres Noetzli, Clark Barrett and Cesare Tinelli

We would like to thank the program committee and other reviewers for their help in evaluating submissions. We would also like to thank the organizers of the SMT competition Liana Hadarean, Antti Hyvarinen, Aina Niemetz and Giles Reger for organizing the competition with additional help from Mathias Preiner, Marco Gario and Andres Noetzli. We would also like to thank the Nikolaj Bjørner, Roberto Sebastiani, Clark Barrett, Pascal Fontaine, the presenters at the workshop, and session chairs for their help in making the event successful. We appreciate the EasyChair developers in making in much easier to prepare volumes such as this and organize workshops. Finally, we would like to thank the organizers of the SAT conference and in particular, the workshop chair, Vasco Manquinho, for help with local arrangements.

June 26, 2019 Lugano, Switzerland Portland, Oregon, United States

Natasha Sharygina Joe Hendrix