

Preface

This volume contains the papers presented at the Sixth International Conference on Verified Software: Theories, Tool and Experiments (VSTTE), which was held in Vienna, Austria, during July 17–18, 2014, as part of the Vienna Summer of Logic. The final version of the papers was prepared by the authors after the event took place, which has permitted them to take feedback received at the meeting into account.

VSTTE has originated from the Verified Software Initiative (VSI), which is an international initiative directed at the scientific challenges of large-scale software verification. The inaugural VSTTE conference was held at ETH Zurich in October 2005, and was followed by VSTTE 2008 in Toronto, VSTTE 2010 in Edinburgh, VSTTE 2012 in Philadelphia, and VSTTE 2013 in Menlo Park. The goal of the VSTTE conference is to advance the state of the art through the interaction of theory development, tool evolution, and experimental validation.

The call for papers for VSTTE 2014 has solicited submissions describing significant advances in the production of verified software, i.e., software that has been proved to meet its functional specifications. We are especially interested in submissions describing large-scale verification efforts that involve collaboration, theory unification, tool integration, and formalized domain knowledge. We welcome papers describing novel experiments and case studies evaluating verification techniques and technologies.

There were 34 submissions. Each submission was reviewed by at least two, and on average 3.3, members of the Program Committee. The committee decided to accept 17 papers. The program has also included two invited talks, given by Orna Grumberg (Technion) and Michael Whalen (University of Minnesota), and a presentation on the 2014 Verified Software Competition organized by Ernie Cohen, Marcelo Frias, Peter Mueller, and Natarajan Shankar.

We would like to thank the invited speakers and all submitting authors for their contributions to the program. We owe a lot to Natarajan Shankar, who took care of all organization, Elizabeth Polgreen for managing the website and the proceedings, Leo Freitas (Publicity Chair), and Martina Seidl (CAV Workshop Chair). Finally, we would like to thank the external reviewers and the Program Committee for their reviews and for selecting the papers that appear in this volume.

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Dimitra Giannakopoulou
Daniel Kroening

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