Preface

This volume contains the proceedings of the Fourth Workshop on Tools for Automatic Program Analysis (TAPAS 2013). The workshop was held in Seattle, Washington, USA on June 19, 2013, as a satellite event to the Twentieth International Static Analysis Symposium (SAS 2013), which was co-located with the Thirty-Fourth ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI 2013). The aim of the TAPAS workshop is to promote discussion about static analysis tools and their implementations—between program analysis specialists and users of static analysis tools. Previous workshops have been organized in Perpignan, France (2010), Venice, Italy (2011), and Deauville, France (2012).

TAPAS 2013 featured a new solicitation format for Analyzer Pearls, drawing inspiration from Functional Pearls appearing in the Journal of Functional Programming, that should contribute instructive essays that describe “tricks of the trade” in formalizing and constructing analyzer tools. An Analyzer Pearl may consider any aspect of the design and implementation of program analyzers—both theoretical and practical.

The program committee of TAPAS 2013 consisted of

• Bor-Yuh Evan Chang, University of Colorado Boulder, USA (chair);
• Dino Distefano, Queen Mary, University of London, UK;
• Ben Hardekopf, University of California, Santa Barbara, USA;
• Franjo Ivančić, NEC Labs America, USA;
• Roman Manevich, Ben-Gurion University of the Negev, Israel;
• Michal Moskal, Microsoft Research Redmond, USA;

The committee received 3 Analyzer Pearl submissions and accepted 2 for presentation. The papers were refereed by the program committee with each paper receiving 3 to 4 reviews.

The technical program for TAPAS 2013 consisted of invited lectures from leading experts in analysis design and implementation and contributed presentations on Analyzer Pearls. The invited speakers were
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For the fourth time, TAPAS has been organized as a satellite event to SAS. We are very grateful to the SAS 2013 organizers Francesco Logozzo and Manuel Fähndrich, as well as the general chair of PLDI 2013 Hans-J. Boehm who included these proceedings in the joint PLDI 2013 USB stick. We thank Ranjit Jhala, Werner Dietl, and Ben Hardekopf for serving as session chairs. We also thank Xavier Rival and Bertrand Jeannet for their advice during the preparation of this workshop. Finally, many thanks to Mike Mislove, Managing Editor of the ENTCS series.

Bor-Yuh Evan Chang