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Volume Editors

Viktor Kuncak
Swiss Federal Institute of Technology Lausanne (EPFL)
IC IIF LARA INR 318, Station 14, 1015 Lausanne, Switzerland
E-mail: viktor.kuncak@epfl.ch

Andrey Rybalchenko
Technische Universität München, Institut für Informatik
Boltzmannstr. 3, 85748 Munich, Germany
E-mail: rybal@in.tum.de

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Preface

This volume contains the proceedings of the 13th International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI 2012), held in Philadelphia, Pennsylvania, USA, during January 22–24, 2012. VMCAI 2012 was the 13th in a series of meetings. Previous editions of the conference were held in Port Jefferson 1997, Pisa 1998, Venice 2002, New York 2003, Venice 2004, Paris 2005, Charleston 2006, Nice 2007, San Francisco 2008, Savannah 2009, Madrid 2010, and Austin 2011.

VMCAI provides a forum for researchers from the communities of verification, model checking, and abstract interpretation. The conference showcases state-of-the-art research in each of those areas and facilitates interaction, cross-fertilization, and advancement of hybrid methods that span multiple areas. The topics covered in the conference include program verification, model checking, abstract interpretation static analysis, deductive methods, program certification, debugging techniques, abstract domains, type systems, optimization. Papers may address any programming paradigm, including concurrent, constraint, functional, imperative, logic and object-oriented programming.

This year, 70 papers were submitted to VMCAI. Each submission was reviewed by at least three Program Committee members, and on average each paper was reviewed by 3.22 committee members. After carefully deliberating over the relevance and quality of each paper, the Program Committee chose to accept 26 papers for presentation at the conference.

This year's edition continued the VMCAI tradition of inviting distinguished speakers to give talks and tutorials. The program included talks by Alex Aiken, Rajeev Alur, Ahmed Bouajjani, Ranjit Jhala, and Tobias Nipkow.

The quality of the conference crucially depends on the hard work the Program Committee and subreviewers put into the paper selection process; we thank them greatly for their efforts. Our thanks also go to the Steering Committee members for helpful advice, in particular to David Schmidt and Lenore Zuck for their invaluable efforts in the conference organization. VMCAI 2012 was co-located with POPL 2012 and held in co-operation with ACM (Association for Computing Machinery). We thank Matthew Might, who served as our interface to the POPL organizers, and ACM for help with the local arrangements. Finally, we are grateful to Andrei Voronkov, whose EasyChair system eased the submission and paper selection process, and greatly simplified the compilation of the proceedings.

January 2012

Viktor Kuncak
Andrey Rybalchenko

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