

# Preface

This volume contains the proceedings of the 14th Asian Symposium on Programming Languages and Systems (APLAS 2016), held in Hanoi, Vietnam, during November 21–23, 2016. APLAS aims to stimulate programming language research by providing a forum for the presentation of the latest results and the exchange of ideas in programming languages and systems. APLAS is based in Asia, but is an international forum that serves the worldwide programming language community.

APLAS 2016 solicited submissions in two categories: regular research papers and system and tool presentations. The topics covered in the conference include, but are not limited to: semantics, logics, and foundational theory; design of languages, type systems, and foundational calculi; domain-specific languages; compilers, interpreters, and abstract machines; program derivation, synthesis, and transformation; program analysis, verification, and model-checking; logic, constraint, probabilistic and quantum programming; software security; concurrency and parallelism; and tools for programming and implementation.

This year 53 papers were submitted to APLAS. Each submission was reviewed by three or more Program Committee members with the help of external reviewers. After thoroughly evaluating the relevance and quality of each paper, the Program Committee decided to accept 20 regular research papers and two system and tool presentations. This year’s program also continued the APLAS tradition of invited talks by distinguished researchers:

- Kazuaki Ishizaki (IBM Research – Tokyo) on “Making Hardware Accelerator Easier to Use”
- Frank Pfenning (CMU) on “Substructural Proofs as Automata”
- Adam Chlipala (MIT) on “Fiat: A New Perspective on Compiling Domain-Specific Languages in a Proof Assistant”

This program would not have been possible without the unstinting efforts of several people, whom I would like to thank. First, the Program Committee and subreviewers for the hard work put in towards ensuring the high quality of the proceedings. My thanks also go to the Asian Association for Foundation of Software (AAFS), founded by Asian researchers in cooperation with many researchers from Europe and the USA, for sponsoring and supporting APLAS. I would like to warmly thank the Steering Committee in general and Quyet-Thang Huynh, Hung Nguyen, and Viet-Ha Nguyen for their support in the local organization and for organizing the poster session. Finally, I am grateful to Andrei Voronkov, whose EasyChair system eased the processes of submission, paper selection, and proceedings compilation.

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