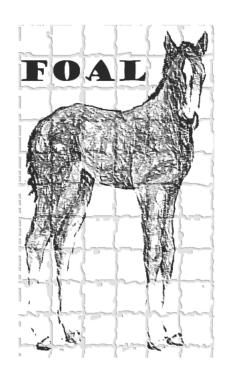# Preface

Aspect-oriented programming is a paradigm in software engineering and programming languages that promises better support for separation of concerns. The Foundations of Aspect-Oriented Languages (FOAL) workshop was held at the Eleventh International Conference on Aspect-Oriented Software Development in Potsdam, Germany, on March 26, 2012. This workshop was designed to be a forum for research in formal foundations of aspect-oriented programming languages. The call for papers announced the areas of interest for FOAL as including: semantics of aspect-oriented languages, specification and verification for such languages, type systems, static analysis, theory of testing, theory of aspect composition, and theory of aspect translation (compilation) and rewriting. The call for papers welcomed all theoretical and foundational studies of foundations of aspect-oriented languages.

The goals of this FOAL workshop were to:

● Make progress on the foundations of aspect-oriented programming languages.

FOAL logos courtesy of Luca Cardelli

● Exchange ideas about semantics and formal methods for aspect-oriented programming languages.

● Foster interest within the programming language theory and types communities in aspect-oriented programming languages.

● Foster interest within the formal methods community in aspect-oriented programming and the problems of reasoning about aspect-oriented programs.

The workshop was organized by Shmuel Katz (Technion–Israel Institute of Technology, Israel), Gary T. Leavens (University of Central Florida, USA), and Hidehiko Masuhara (University of Tokyo, Japan).

We are very grateful to the program committee, which was chaired very ably by Hidehiko Masuhara.

The keynote talk this year is by Eric Bodden, describing his important work on typesafe weaving and modularity. The regular papers have been divided into three sessions, roughly concerning scoping and modularity, flexible semantic analysis and implementation, and applying aspect concepts to modelling and testing stages.

Shmuel Katz
Technion–Israel Institute of Technology, Israel

Gary T. Leavens
University of Central Florida, USA

Hidehiko Masuhara
University of Tokyo, Japan

FOAL 2012 Organizers

Message from the Program Committee Chair

The eleventh FOAL workshop continues to be one of the primary forums for foundational work on aspect-oriented software development. As in the past, each paper was subjected to full review by at least three reviewers. I am grateful to the program committee members for their dedication, insightful comments, attention to detail, and the service they provided to the community and the individual authors.

I am also grateful to the authors of submitted works. Twelve papers were submitted for review this year. Of these, the program committee selected eight for presentation at the workshop and publication in the proceedings.

The program was rounded out with a discussion section.

We thank the organizers of AOSD 2012 for hosting the workshop.

Hidehiko Masuhara
FOAL 2012 Program Chair
University of Tokyo, Japan