

FOAL '08

Proceedings of the Seventh Workshop on Foundations of Aspect-Oriented Languages

held at the Seventh International Conference on Aspect-Oriented Software Development

April 1, Brussels Belgium

Workshop Organizers: Curtis Clifton, Shmuel Katz, Gary T. Leavens, and Mira Mezini

The Association for Computing Machinery 1515 Broadway New York New York 10036

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Preface

Aspect-oriented programming is a paradigm in software engineering and programming languages that promises better support for separation of concerns. The seventh Foundations of Aspect-Oriented Languages (FOAL) workshop was held at the Seventh International Conference on Aspect-Oriented Software Development in Brussels Beligum, on April 1, 2008. 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.
- 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.



FOAL logos courtesy of Luca Cardelli

The workshop was organized by Curtis Clifton (Rose-Hulman Institute of Technology, USA), Shmuel Katz (Technion–Israel Institute of Technology, Israel), Gary T. Leavens (University of Central Florida, USA), and Mira Mezini (Darmstadt University of Technology, Germany). The program committee was chaired by Curtis Clifton.

We thank the organizers of AOSD 2008 for hosting the workshop, and in particular Workshops Chairperson Mario Sudholt for his help.

Message from the Program Committee Chair

The seventh FOAL workshop maintains the high bar for quality set by previous instances. FOAL is 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. Papers co-authored by program committee members or organizers were reviewed by four or five reviewers and were held to a higher standard. 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

The members of the program committee were: Jonathan Aldrich (Carnegie Mellon University, USA), Lodewijk Bergmans (University of Twente, Netherlands), Curtis Clifton (Rose-Hulman Institute of Technology, USA), William Griswold (University of California, San Diego, USA), Günter Kniesel (University of Bonn, Germany), Shriram Krishnamurthi (Brown University, USA), Ralf Lämmel (Universitä Koblenz-Landau, Germany), Karl Lieberherr (Northeastern University, USA), Hidehiko Masuhara (University of Tokyo, Japan), James Noble (Victoria University of Wellington, New Zealand), Klaus Ostermann (University of Aarhus, Denmark), Hridesh Rajan (Iowa State University, USA), and Damien Sereni (Oxford, UK). The sub-reviewers, whom I also thank, were: Bryan Chadwick, Robert Dyer, and Therapon Skotiniotis.

I am also grateful to the authors of submitted works. Ten papers were submitted for review this year. Of these, the program committee selected four for presentation at the workshop and publication in the proceedings. The committee judged that a fifth paper presenting preliminary work was intriguing and invited the authors to give a short presentation. An abstract outlining that work is also published herein.

The program was rounded out with an invited talk by William Harrison of Trinity College, Dublin, Ireland, and a panel discussion on the state of research in AOSD. The panelists were Mehmet Aksit (University of Twente, Netherlands), Oege de Moor (Oxford University, UK), Gary T. Leavens (University of Central Florida, USA), Klaus Ostermann (University of Aarhus, Denmark). I sincerely thank them all for their dedication and service.

Finally, I would like to thank the other members of the organizing committee of FOAL—Shmuel Katz, Gary Leavens, and Mira Mezini—for their work in guiding us toward another inspiring workshop.

Curt Clifton FOAL '08 Program Chair Rose-Hulman Institute of Technology Terre Haute, Indiana, USA