MISS'12 Chairs' Welcome

Systems software, comprising artifacts ranging from middleware servers over virtual machines and operating systems to hardware descriptions, typically bears great inherent complexity. This brings about intricate relationships between logical modules of such systems that are seldom clearly expressed in source code or architecture descriptions. As more and more features and requirements are being "pushed down" into the infrastructure, the developers of systems software need better tools and techniques for dealing with the ensuing increased complexity. The design and implementation of systems-level software presents unique opportunities and challenges for research on software modularity. These challenges include the need to address the inherent complexity of infrastructure software, the need for strong assurances of correct and predictable behavior, the need for maximum run-time performance, and the necessity of dealing with the large body of existing systems software components.

The Modularity in Systems Software (MISS) workshop series aims to provide a highly interactive forum for researchers and developers to discuss the application of and relationships between exciting new modularity constructs for systems software such as aspects, features, components, traits and context layers. The goal is to put these constructs into a common reference frame and to build connections between the software engineering and systems communities.

The call for papers attracted eight submissions, all of which were accepted for inclusion in the workshop program, covering topics ranging from hardware design languages to programming language design. In addition, the program includes an invited talk by Christian Mathis from SAP Innovation Center Potsdam, addressing issues in language design for scalable business applications.

Putting together MISS'12 was a team effort. We thank the authors for providing the content of the program. We are grateful to the program committee, who worked very hard in reviewing papers and providing feedback for authors. The MISS'12 program committee had the following members:

- Bram Adams, Queen's University, Canada
- Michael Engel, Technische Universität Dortmund, Germany
- Christian Hochberger, Technische Universität Dresden, Germany
- Christian Kästner, Philipps-Universität Marburg, Germany
- Julia Lawall, DIKU, Denmark
- Stefan Marr, Vrije Universiteit Brussel, Belgium
- Oren Mishali, Open University of Israel

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Christoph Borchert, Michael Haupt, Daniel Lohmann, David Lorenz
MISS'12 Co-Organizers