5th International Workshop on Systems Software Verification (SSV '10)

Sponsored by USENIX, the Advanced Computing Systems Association

http://www.usenix.org/ssv10

October 6–7, 2010   **Vancouver, BC, Canada**

SSV '10 will be held immediately following the 9th USENIX Symposium on Operating Systems Design and Implementation (OSDI '10), which will take place October 4–6, 2010.

Important Dates

Paper registration and abstracts due: *Friday, May 28, 2010, 11:59 p.m. Samoan time (UTC-11)*
Paper submissions due: *Friday, June 11, 2010, 11:59 p.m. Samoan time (UTC-11)*
Notification of acceptance: *Tuesday, July 20, 2010*
Final papers due: *Monday, August 23, 2010*

Workshop Organizers

Program Co-Chairs

Ralf Huuck, *NICTA and University of New South Wales, Australia*
Gerwin Klein, *NICTA and University of New South Wales, Australia*
Bastian Schlich, *ABB Corporate Research, Germany*

Program Committee

Adam Chlipala, *Harvard University, USA*
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Zhong Shao, *Yale University, USA*
Junfeng Yang, *Columbia University, USA*
Kwangkeun Yi, *Seoul National University, South Korea*

Overview

Industrial-strength software analysis and verification has advanced in recent years through the introduction of model checking, automated and interactive theorem proving, and static analysis techniques, as well as correctness by design, correctness by contract, and model-driven development. However, many techniques are working under restrictive assumptions that are invalidated by complex embedded systems software such as operating system kernels, low-level device drivers, or microcontroller code.

The aim of this workshop is to bring together researchers and developers from both academia and industry who are facing real software and real problems with the goal of finding real, applicable solutions. By "real" we mean problems such as time-to-market or reliability that the industry is facing. A real solution is one that is applicable to the problem in industry and not one that only applies to an abstract, academic, toy version of it. In this workshop we will discuss software analysis and development techniques and tools; this forum will serve as a platform to discuss open problems and future challenges in dealing with existing and upcoming systems-level code.

This will be a 1.5-day workshop, beginning on the afternoon of October 6, 2010, and running through October 7, 2010.

Topics

Topics include but are not limited to:
- Model checking
- Automated and interactive theorem proving
- Static analysis
- Automated testing
- Model-driven development
- Embedded systems development
- Programming languages
- Verifying compilers
- Software certification
- Software tools
- Experience reports

Submission Instructions

Interested speakers should register their papers and submit their abstracts by May 28, 2010, and should submit their papers by June 11, 2010, both via the Web submission form on the SSV '10 Call for Papers Web site, http://www.usenix.org/ssv10/cfp. All papers will be subject to peer review under conference standards. Experience reports and papers on work in progress are welcome as long as there is a clear contribution. Submissions must be in PDF format and must be no longer than nine 8.5" x 11" pages, including figures, tables, and references, formatted in two columns, using 10 point type on 12 point (single-spaced) leading, with the text block being no more than 6.5" wide by 9" deep.

All papers will be available online to registered attendees before the workshop. If your accepted paper should not be published prior to the event, please notify production@usenix.org. The papers will be available online to everyone beginning on the first day of the workshop, October 6, 2010.

Papers accompanied by nondisclosure agreement forms will not be considered. Accepted submissions will be treated as confidential prior to publication on the USENIX SSV '10 Web site; rejected submissions will be permanently treated as confidential.

Simultaneous submission of the same work to multiple venues, submission of previously published work, or plagiarism constitutes dishonesty or fraud. USENIX, like other scientific and technical conferences and journals, prohibits these practices and may take action against authors who have committed them. See the USENIX Conference Submissions Policy at http://www.usenix.org/submissionspolicy. Note, however, that we expect that papers accepted for SSV '10 might eventually be extended as full papers suitable for presentation at future conferences, as outlined above. Questions? Contact your program co-chairs, ssv10chairs@usenix.org, or the USENIX office, submissionspolicy@usenix.org.