6th International Workshop on Systems Software Verification

SSV'11, August 26, 2011, Nijmegen, The Netherlands

Edited by
Jörg Brauer
Marco Roveri
Hendrik Tews

OASIcs – Vol. 24 – SSV'11 www.dagstuhl.de/oasics

Editors

Jörg Brauer
Verified Systems International GmbH
Bremen
brauer@verified.de

Marco Roveri
Embedded Systems Unit
Fondazione Bruno Kessler
roveri@fbk.eu

Hendrik Tews
Operating Systems Group
TU Dresden
tews@os.inf.tu-dresden.de

ACM Classification 1998
D.2.4 Software/Program Verification

ISBN 978-3-939897-36-1

Published online and open access by
Schloss Dagstuhl – Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing, Saarbrücken/Wadern, Germany. Online available at http://www.dagstuhl.de/dagpub/978-3-939897-36-1.

Publication date
July 2012

Bibliographic information published by the Deutsche Nationalbibliothek
The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data are available in the Internet at http://dnb.d-nb.de.

Digital Object Identifier: 10.4230/OASIcs.SSV.2011.i

ISBN 978-3-939897-36-1 **ISSN 2190-6807** **http://www.dagstuhl.de/oasics**

OASIcs – OpenAccess Series in Informatics

OASIcs aims at a suitable publication venue to publish peer-reviewed collections of papers emerging from a scientific event. OASIcs volumes are published according to the principle of Open Access, i.e., they are available online and free of charge.

ISSN 2190-6807

www.dagstuhl.de/oasics

Contents

6th International Workshop on Systems Software Verification (SSV'11).
Editors: Jörg Brauer, Marco Roveri, Hendrik Tews
OpenAccess Series in Informatics
OASICS Schloss Dagstuhl – Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany

Preface

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 micro-controller code.

The aim of SSV workshop series 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. It has always been the goal of SSV program committees to let "real problem" really mean real problem (in contrast to real academic problem).

The 6th SSV workshop was held on August 26 in Nijmegen in the Netherlands. The workshop was co-located with the second conference on Interactive Theorem Proving (ITP 2011), which took place from 22–25 August at the same place.

The program chairs and organization committee of SSV 2011 have been

Jörg Brauer, Verified Systems International GmbH, Germany
Marco Roveri, FBK-irst, Italy
Hendrik Tews, TU Dresden, Germany

The SSV program chairs gratefully acknowledge the sponsorship of National ICT Australia Ltd (NICTA), Australia's Information and Communications Technology Research Centre of Excellence, and of the Ultra high speed mobile information and communication (UMIC) cluster of excellence at RWTH Aachen University in Germany.

11th July 2012 Jörg Brauer, Marco Roveri and Hendrik Tews

6th International Workshop on Systems Software Verification (SSV'11).
Editors: Jörg Brauer, Marco Roveri, Hendrik Tews

OpenAccess Series in Informatics
OASICS Schloss Dagstuhl – Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany