



Proceedings of the
11th International Workshop on
Automated Verification of Critical Systems
(AVoCS 2011)

Preface

Alexander Romanovsky, Cliff Jones, Jens Bendisposto, Michael Leuschel
3 Pages

Preface

Alexander Romanovsky, Cliff Jones, Jens Bendisposto, Michael Leuschel

Newcastle University

1 Preface

AVOCS, the workshop on *Automated Verification of Critical Systems*, is an annual meeting that brings together researchers and practitioners to exchange new results on tools and techniques relating to the verification of critical systems. Topics of interest include all aspects of automated verification, including model checking, theorem proving, abstract interpretation and refinement; application areas include various types of critical systems (safety-critical, security-critical, business-critical, performance-critical, etc.). Contributions that describe different techniques or industrial case studies are encouraged.

This volume contains the proceedings of the 11th workshop on Automated Verification of Critical Systems that was hosted by Newcastle University and took place during September 12–14, 2011 in Newcastle upon Tyne, UK.

Previous AVOCS workshops were held at the University of Oxford (2001 and 2007), the University of Birmingham (2002), the University of Southampton (2003), The Royal Society in London (2004), the University of Warwick (2005), LORIA, Nancy (2006), the University of Glasgow (2008), Gregynog (organized by Swansea University) and Heinrich-Heine-Universität Düsseldorf (2010). AVOCS 2012 will take place in Bamberg, Germany.

AVOCS 2011 received 18 Full Paper submissions (with authors from 13 countries), out of which 10 papers were selected for presentation at the workshop (one paper does not appear because the authors failed to attend). Furthermore, AVOCS received 11 Short Contribution submissions out of which 8 were accepted for presentation. The selection process was carried out by the Program Committee (see below), taking into account the originality, quality, and relevance of the material presented in each submission. The presented papers are included in this volume, together with the contributions from the invited speakers Janet Barnes and Tom Maibaum.

We wish to thank all authors who submitted their papers to AVOCS 2011, Jodi Hossbach for help with workshop organisation, the Program Committee for its excellent work and the reviewers (see below) who supported the Program Committee in the evaluation and selection process.

We are grateful to the School of Computing Science at Newcastle University for hosting the event and thank CSR, Formal Methods Europe and Microsoft for sponsoring AVOCS 2011. We also gratefully acknowledge the use of EasyChair, the conference management system developed by Andrei Voronkov.

PC Co-Chairs: Alexander Romanovsky, Cliff Jones (Newcastle University) Jens Bendisposto Michael Leuschel (University of Dusseldorf)

Preface

AVOCS 2011 Program Committee:

Jens Bendisposto (co-chair)
Antonio Casimiro
Michael Goldsmith
Ian Hayes
Cliff Jones (co-chair)
Michael Leuschel (co-chair)
Felix Loesch
Gerald Luetzgen
Ursula Martin
Stefan Merz
Alice Miller
Markus Roggenbach
Alexander Romanovsky (co-chair)
Thomas Santen
Sebastian Wiczorek
Jim Woodcock

AVOCS 2011 Referees:

Jeremy Bryans
Milan Ceska
Alexander Ditter
Alexei Iliasov
Phillip James
Andreas Roth
Stephan Scheele
Wei Wei
David White
Luke Wildman