Proceedings of the
10th International Workshop on
Automated Verification of Critical Systems
(AVoCS 2010)

Preface

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The Workshop on Automated Verification of Critical Systems was held in September 20-23 in Düsseldorf, Germany co-located with the second Rodin User and Developer Workshop. 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), and Swansea University (2009).

The aim of AVoCS 2010 was to contribute to the interaction and exchange of ideas among members of the international research community on tools and techniques for the verification of critical systems. The subject is to be interpreted broadly and inclusively. It covers all aspects of automated verification, including model checking, theorem proving, SAT/SMT/constraint solving, abstract interpretation, and refinement pertaining to 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. The technical program will consist of invited and contributed talks and also allow for short presentations of ongoing work. The workshop will be relatively informal, with an emphasis on discussion.

There have been 22 full paper submissions and 13 short submission of which 11 full paper and 7 short submission were accepted for presentation at the workshop. In a second review process 10 paper were accepted for publication in the Electronic Communications of the EASST. All full paper have been anonymously reviewed by at least three reviewers.

We are very grateful to the Microsoft Innovation Center Europe for sponsoring attendance of PhD students at the workshop. We would like to thank the PC members and the reviewers for their rigorous and detailed reviews. We also thank the invited speakers, Jean-Raymond Abrial and Joseph R. Kiniry, for their contributions to the workshop.

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