

AVOCS 2013 Final Call for Papers

13th Automated Verification of Critical Systems (AVOCS) 2013 Workshop

<http://www.avocs2013.org.uk>

11-13th September, 2013
University of Surrey, UK

The aim of Automated Verification of Critical Systems (AVoCS) 2013 is 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 which need to meet stringent dependability requirements (safety-critical, business-critical, performance-critical, etc). Contributions that describe different techniques, or industrial case studies are encouraged. The technical programme 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 will be a few studentships available funded by Formal Methods Europe in order to support PhD students who present a paper at the workshop.

Topics include (but are not limited to)

- Model Checking
- Automatic and Interactive Theorem Proving
- SAT, SMT or Constraint Solving for Verification
- Abstract Interpretation
- Specification and Refinement
- Requirements Capture and Analysis
- Verification of Software and Hardware
- Specification and Verification of Fault Tolerance and Resilience
- Probabilistic and Real-Time Systems
- Dependable Systems
- Verified System Development
- Industrial Applications

Important Dates

- Submission (abstract for full paper): 31st May 2013
- Submission (full papers): 7th June 2013
- Notification (full papers): 12th July 2013
- Submission (short papers): 19nd July 2013

Notification (short papers): 26th July 2013
Registration deadline (including accommodation): 30th July 2013
Submission of final versions: 5th August 2013
Workshop: 11-13th September 2013

We will have two invited speakers, one on Applying Formal Methods and one on Inside Tools.

Submission Details

Full Papers: Submissions of full papers to the workshop must not have been published or be concurrently considered for publication elsewhere. All submissions will be peer-reviewed and judged on the basis of originality, contribution to the field, technical and presentation quality, and relevance to the workshop. Final versions of the papers must be written in English and not exceed 15 pages (excluding the title page). Formatting details are provided on the website.

Short Contributions: AVoCS'13 encourages the submissions of short contributions in order to stimulate discussions at the workshop. Reports on ongoing work or surveys on work published elsewhere are welcome. The Programme Committee will select short contributions on the basis of submitted abstracts according to significance and general interest. Short contributions must be written in English and not exceed 2 pages (excluding the title page).

Conference Proceedings & Special Journal Issue

At the workshop, pre-proceedings will be available in the form of a Surrey University Technical Report; this report will also include the short contributions.

After the workshop, the authors of accepted full papers will have about one month in order to revise their papers for publication in the workshop post-proceedings which will appear in the Electronic Communications of the EASST Open Access Journal. Short papers will not be part of the proceedings in the Open Access Journal.

We will invite authors of a selection of the best papers presented at the workshop to submit extended versions of their work for publication in a special issue of Elsevier's journal Science of Computer Programming.

Program Committee

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