

# AVoCS 2007

Seventh International Workshop on Automated Verification of Critical Systems

Oxford, 10-12 September 2007

<http://www.comlab.ox.ac.uk/avocs07/>

## CALL FOR PAPERS

### PROGRAMME COMMITTEE

Michael Goldsmith  
(Formal Systems, UK, co-chair)  
Bill Roscoe  
(Oxford University, UK, co-chair)  
Patricia Bouyer  
(Cachan, France)  
Sadie Creese  
(Warwick, UK)  
Constance Heitmeyer  
(Naval Research Laboratory, USA)  
Michael Huth  
(Imperial College, UK)  
Marta Kwiatkowska  
(Birmingham/Oxford, UK)  
Ranko Lazic  
(Warwick, UK)  
Christie Marr  
(St Andrews, UK)  
Stephan Merz  
(LORIA, France)  
Alice Miller  
(Glasgow, UK)  
Paritosh Pandya  
(TIFR, India)  
Markus Roggenbach  
(Swansea, UK)  
Peter Ryan  
(Newcastle, UK)  
Helen Treharne  
(Surrey, UK)  
Sergio Yovine  
(Verimag, France)  
Irfan Zakiuddin  
(Imperial College, UK)

### IMPORTANT DATES

29 June: Paper submission  
deadline  
27 July: Acceptance  
notification  
14 August: Papers revised  
for preliminary  
proceedings  
31 August: Registration  
deadline  
10-12 September: Workshop

### CONTACT

Workshop organisers' email:  
[avocs07@comlab.ox.ac.uk](mailto:avocs07@comlab.ox.ac.uk)

### SUBMISSION

Via conference website:  
<http://www.comlab.ox.ac.uk/avocs07/>

### SCOPE

The aim of AVoCS 2007 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, abstract interpretation, and refinement pertaining to various types of critical systems (safety-critical, security-critical, business-critical, performance-critical, etc.). Contributions that describe combinations of different techniques, and industrial case studies are particularly encouraged.

Since AVoCS is returning to its origin in Oxford, where it developed out of a series of informal workshops based around CSP, we hope to receive a number of submissions this year relating to CSP, its tools and applications. Papers based on other formalisms are also very welcome, of course.

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.

Previous AVoCS workshops were held at the University of Oxford (2001), the University of Birmingham (2002), the University of Southampton (2003), the Royal Society in London (2004), the University of Warwick (2005) and LORIA, Nancy (2006).

### TOPICS

Topics include:

- Model Checking
- Automatic and Interactive Theorem Proving
- Abstract Interpretation
- Specification and Refinement
- Requirements Capture and Analysis
- Verification of Software and Hardware
- Verification of Security-Critical Systems
- Probabilistic and Real-Time Systems
- Verified System Development
- Industrial Applications

### PROCEEDINGS

Preliminary proceedings will be available at the workshop. These will include preliminary versions of regular papers (up to 15 pages) and abstracts of short presentations (up to 5 pages). After the workshop, authors of regular papers will be asked to prepare a final version for proceedings in Electronic Notes in Theoretical Computer Science. Full instructions to authors can be found on the conference website.

Preparation of a special issue of a high-quality journal is under negotiation. Previous AVoCS workshops have given rise to special issues of Formal Aspects of Computing and of Software Tools for Technology Transfer.