



Call for Papers

SAVCBS'04

Workshop at
ACM SIGSOFT 2004/FSE-12
October 31-November 1, 2004

The third workshop on specification and verification of component-based systems is affiliated with [ACM SIGSOFT 2004/FSE-12](#) and will be held in Newport Beach, California, October 31 and November 1, 2004. Seven page papers are due on *August 15, 2004*.

Theme and Topics of Interest

SAVCBS is focused on using formal (i.e., mathematical) techniques to establish a foundation for the specification and verification of component-based systems. Suggested research topics of interest include (but are not limited to):

- Techniques for component-based verification or reasoning
- Component-based specification languages
- Static analysis of components and component compositions
- Verification-oriented design methodologies for components
- Dynamic checking techniques, including run-time assertion or property checking
- Specification and verification of non-functional component behavior (performance, memory, concurrency, etc.)
- Unifying formal descriptions of concurrency properties with model-based behavioral descriptions of components
- Balancing tradeoffs (automatic/manual verification, soundness/completeness, static/dynamic verification, testing/formal verification, scalability/coverage, etc.)
- Theories of component composition
- Industrial experience, such as adoption issues, with formal techniques for component-based systems
- Case studies of applying formal techniques to component based systems
- Educational experience or tactics for formal approaches to component-based systems

Submissions should outline the current state of research or practice, describe the most pressing shortcomings, and formulate goals for future development.

Submissions

Submissions must not exceed 7 pages. We encourage, but do not require, use of the ACM Conference format. We also suggest that you add page numbers to your submission, to make adding comments easier. Papers will be accepted in PDF or Postscript formats. The call for papers web site (<http://www.cs.iastate.edu/SAVCBS/2004/call.shtml>) will contain a link to the submission site when it is available.

Important dates

Submission deadline: August 15, 2004

Notification date: September 15, 2004

Final versions: October 10, 2004

Workshop Paper Selection Committee:

- [Jonathan Aldrich](#) (CMU)
- [Mike Barnett](#) (Microsoft Research)
- [Manfred Broy](#) (Universität München)
- [Betty H. C. Cheng](#)
- [Edmund M. Clarke](#) (CMU)
- [Matthew Dwyer](#) (Univ. Nebraska)
- [Steve Edwards](#) (Virginia Tech)
- [Dimitra Giannakopoulou](#) (NASA Ames/RIACS)
- [Gary T. Leavens](#) (Iowa State)
- [K. Rustan M. Leino](#) (Microsoft Research)
- [Rupak Majumdar](#) (UCLA)
- [Jeff Magee](#) (Imperial College, London)
- [Peter Müller](#) (ETH Zürich)
- [Wolfram Schulte](#) (Microsoft Research)
- [Natasha Sharygina](#) (Carnegie Mellon)
- [Murali Sitaraman](#) (Clemson)
- [Clemens Szyperski](#) (Microsoft Research)

Web Page:

See <http://www.cs.iastate.edu/SAVCBS/> for more details.