

## Call for papers FACS'06

# Third International Workshop on Formal Aspects of Component Software

Prague, Czech Republic  
September 20-22, 2006

<http://www.iist.unu.edu/facs06/>



## Scope & Topics

Component-based software emerged as a promising paradigm to deal with the ever increasing need for mastering systems' complexity, their evolution and reuse, and driving software engineering into sound production and engineering standards. Soon, however, it became a popular technology long before consensual definitions and principles, let alone formal foundations, have been put forward. Issues like mathematical models for components, their interaction and composition, or rigorous approaches to verification, deployment, testing and certification remain open research questions and challenging opportunities for formal methods. Moreover, new challenges are raised by applications of this paradigm to safety-critical, mobile, and embedded systems.

The objective of FACS'06 is to bring together researchers in the areas of component software and formal methods to promote a deep understanding of this paradigm and its applications.

The workshop will also be interested in defining the common aspects of components and component-based development. It is expected that formal paper presentations will be followed by lively debate in a stimulating atmosphere. Possible topics include, but are not limited to:

- formal models for software components and component interaction
- design and verification methods for component software
- component composition and deployment: models, calculi, languages
- component testing
- specification of extra-functional properties in component software
- certification of components and software architectures
- component software vs object orientation
- components for real-time, safety-critical, secure and/or embedded systems
- experience reports and case studies in component software
- partial behavior models for software components
- update and reconfiguration of component architectures
- formal methods and modeling languages
- trust models for components



## Program Committee

- Farhad Arbab (CWI, The Netherlands)
- Luis Barbosa (Universidade do Minho, Portugal)
- Frank S. de Boer (PC Chair, CWI, The Netherlands)
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- Joao Faria (Universidade do Porto, Portugal)
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- Susanne Graf (VERIMAG, France)
- Martin Grosse-Rhode (Fraunhofer-ISST, Germany)
- Rolf Hennicker (Ludwig-Maximilians-Universitaet Muenchen, Germany)
- He Jifeng (East China Normal University, China)
- Einar Broch Johnsen (Universitetet i Oslo, Norway)
- Bengt Jonsson (Uppsala University, Sweden)
- Mathai Joseph (Tata Consultancy Services Limited, India)
- Atsushi Igarashi (Kyoto University, Japan)
- Kung-Kiu Lau (The University of Manchester, UK)
- Zhiming Liu (UNU-IIST, Macao)
- Markus Lumpe (Iowa State University, USA)
- Eric Madelaine (INRIA, Centre Sophia Antipolis, France)
- Vladimir Mencl (PC Chair, UNU-IIST, Macao and Charles University, Czech Rep.)
- Sun Meng (National University of Singapore, Singapore)
- Frantisek Plasil (Charles University, Czech Republic)
- Anders Ravn (Aalborg University, Denmark)
- Ralf Reussner (University of Oldenburg, Germany)
- Bernhard Schaez (Technical University of Munich, Germany)
- Joseph Sifakis (VERIMAG, France)
- Jean-Bernard Stefani (INRIA Rhones-Alpes, France)
- Carolyn Talcott (SRI International, USA)

## Invited speakers

- Denis Caromel (Departement d'Informatique, University of Nice - Sophia Antipolis, France)
- Peter Van Roy (Department of Computing Science and Engineering, Catholic University of Louvain, Belgium)

## Submission & Proceedings

Submissions to the workshop will be judged on the basis of originality, relevance, technical soundness and presentation quality. Papers should be written in English and not exceed 15 pages in ENTCS format. The workshop proceedings will be published in Electronic Notes in Theoretical Computer Science, Elsevier, as post-proceedings; in addition, informal workshop proceedings will be handed out to participants during the workshop.

**Important dates:** Submission: June 11, 2006      Acceptance notification: July 23, 2006  
Camera ready: August 20, 2006      Workshop: September 20-22, 2006