FACS 2010

7th International Workshop on Formal Aspects of Component Software

Guimarães, Portugal, 14–16 October 2010

www.di.uminho.pt/facs2010/

Invited speakers
Sanjit Seshia, University of California, Berkeley
Luis Caires, New University of Lisbon

Program Co-chairs
Luís Barbosa, Minho, Portugal
Markus Lumpe, Swinburne, Australia

Program Committee
Farhad Arbab (CWI, The Netherlands)
Marco Autili (L'Aquila Univ., Italy)
Luis Barbosa (Univ. Minho, Portugal)
Andreas Bauer (ANU, Australia)
Frank de Boer (CWI, The Netherlands)
Christiano Braga (Univ. Compl. Madrid, Spain)
Carlos Canal (Univ. Malaga, Spain)
Rolf Hennicker (LMU, Germany)
Einar B. Johnsen (Univ.Oslo, Norway)
Zhiming Liu (IIST UNU, Macau, China)
Ying Liu (IBM China Research, China)
Markus Lumpe (Swinburne Univ., Australia)
Eric Madelaine (INRIA, France)
Sun Meng (Peking University, China)
Corina Pasareanu (NASA Ames, USA)
Patrizio Pelliccione (L'Aquila Univ., Italy)
Frantisek Plasil (Charles Univ., Czech Republic)
Anders Ravn (Aalborg Univ, Denmark)
Nuno Rodrigues (IPCA, Portugal)
Bernhard Schaetz (TUM, Germany)
Marjan Sirjani (Univ. Tehran, Iran)
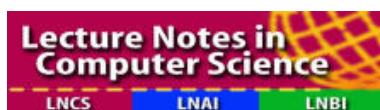*Volker Stolz* (UNU-IIST, Macau, China)
Carolyn Talcott (SRI Inter., USA)
Dang Van Hung (VNU, Vietnam)
Naijun Zhan (IOS, China)

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Context & Objectives

FACS 2010 is concerned with how formal methods can or should be used to make component-based software development succeed. Formal methods consist of mathematically-based techniques for the specification, development, and verification of software and hardware systems. They have shown their great utility for providing the formal foundations of component-based software and working out challenging issues such as mathematical models for components, composition and adaptation, or rigorous approaches to verification, deployment, testing, and certification.

The objective of FACS 2010 is to bring together researchers and practitioners in the areas of component software and formal methods in order to promote a deeper understanding of the component-based software development paradigm and its applications. The workshop seeks to address all common aspects of component software and formal methods. Aditionaly, it aims at developing a community-based understanding of relevant and emerging research problems through formal paper presentations and lively discussions.

History

FACS'10 is the 7th event in a series of workshops, founded by the International Institute for Software Technology of the United Nations University (UNU-IIST). The first FACS workshop was co-located with FM'03 (Pisa, Italy, September 2003). The following FACS workshops were organized as standalone events, respectively at UNU-IIST in Macau (October 2005), at Charles University in Prague (September 2006), at INRIA in Sophia-Antipolis (September 2007), and at University of Malaga in Spain (September 2008). FACS'09 was part of the Formal Methods Week in Eindhoven (October 2009).

Publication

Post-proceedings: **Springer LNCS**
Extended selected papers: **Science of Computer Programming** special issue

We solicit two categories of high-quality submissions on research results and/or experience: research papers (LNCS format, not exceeding 18 pages including bibliography and figures) describing a technical contribution in depth and doctoral abstracts (2 pages, LNCS format) concisely capturing PhD-work-in-progress. Submissions to the workshop should present original research which is unpublished and not submitted for publication elsewhere. Papers will be judged on the basis of originality, relevance, technical soundness and presentation quality.

Venue

Guimarães is a small, historic town in North Portugal, which hosted the country's first royal capital in the 12th century. Its historic center is classified as UNESCO World Heritage.

Hosted by **Minho University**, FACS 2010 will take place at **CCVF**, a main cultural infra-structure, located right in the center of town, in a 18th century building.