OVERVIEW AND SCOPE

FACS 2018 is concerned with the application of formal methods in all aspects of software components and services. Specific topics include, but are not limited to:

* formal models for software components and their interaction;
* formal aspects of services, service-oriented architectures, business processes, cloud computing, cyber-physical systems, Internet of Things, and similar artifacts;
* design and verification methods for software components and services;
* composition and deployment: models, calculi, languages;
* formal methods and modeling languages for components and services;
* models for QoS and other extra-functional properties (e.g., trust, compliance, security) of components and services;
* components for real-time, safety-critical, secure, and/or embedded systems;
* components for the Internet of Things and cyber-physical systems;
* probabilistic techniques for modeling and verification of component-based systems;
* model-based testing of components and services;
* case studies and experience reports;
* tools supporting formal methods for components and services.

PUBLICATION

The proceedings of FACS 2018 will be published as a Springer LNCS volume. Authors of selected papers will be invited to submit extended versions to a special issue of the Science of Computer Programming journal.

SUBMISSION

We solicit submissions reporting on:

* original research contributions (18 pages max)
* applications (18 pages max)
* surveys, comparisons, state-of-the-art reports (18 p. max)
* tool papers (6 pages max)

INVITED SPEAKERS

Edward A. Lee  University of California, Berkeley
Grigore Rosu  University of Illinois, Urbana-Champaign

IMPORTANT DATES

Abstract submission deadline: June 8
Submission deadline: June 15
Notification: August 7
Conference: Oct 10-12