FTSCS 2015

Fourth International Workshop on Formal Techniques for Safety-Critical Systems

Paris, France, November 6–7, 2015

http://www.ftscs.org/

Overview and Scope

There is an increasing demand to use formal methods for the verification and validation of safety-/QoS-critical systems.

Newer standards, such as DO-178C (avionics), ISO 26262 (automotive), IEC 62304 (medical devices), and CENELEC EN 50128 (railway systems) emphasize the need for formal methods and model-based development, speeding up their adaptation in industry.

The aim of this workshop is to bring together researchers and engineers who are interested in the application of formal and semi-formal methods. Specific topics include, but are not limited to:

- formal methods for safety-/QoS-critical systems, including avionics, automotive, railway, and medical systems
- case studies and experience reports
- methods, techniques, and tools
- limitations of formal methods in industry (usability, scalability)
- formal analysis support for modeling languages used in industry, such as AADL, Ptolemy, SysML, SCADE, Modelica
- code generation from validated models.

Publication

Accepted papers in categories A – D will appear in the proceedings of the workshop, published as a volume in Springer's Communications in Computer and Information Science (CCIS) series.

Authors of selected accepted papers will be invited to submit extended versions to appear in a special issue of the Science of Computer Programming journal.

Submission

We solicit submissions reporting on:

A — original research contributions (15 pages max)
B — applications and experiences (15 pages max)
C — surveys, comparisons, state-of-the-art reports (15 p. max)
D — tool papers (5 pages max)
E — position papers and work in progress (5 pages max)

Important Dates

Submission deadline: September 5, 2015

Notification: October 5, 2015

Workshop: November 6 and/or 7, 2015

Photo by N. Sanchez

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