

FTSCS 2022

Eighth International Workshop on Formal Techniques for Safety-Critical Systems

Auckland, New Zealand, December 7, 2022

<http://www.ftscs.org/>

Overview and Scope

There is an increasing demand in industry to use formal methods for verification and validation of safety-critical systems, in avionics, automotive, medical, and other cyber-physical systems. Newer standards, such as DO-178C, (avionics), ISO 26262 (automotive systems), 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 in safety-critical systems, including avionics, automotive, medical, railway, and other safety-/QoS-critical 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 be published in the [ACM Digital Library](#).

Authors of selected accepted 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:

- A — original research contributions (10 pages max)
- B — applications and experiences (10 pages max)
- C — surveys, comparisons, state-of-the-art reports (10 p. max)
- D — tool papers (5 pages max)
- E — position papers and work in progress (5 pages max)

The page limits do not include references.

Important Dates

Submission deadline: September 1, 2022

Notification: October 10, 2022

Workshop: December 7, 2022

Program Committee

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