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.