Software is increasingly the universal integrator for large-scale systems, which themselves are network-centric “systems of systems.” This trend makes software reliability a crucial issue and a technical precondition for building systems which are robust, fault tolerant, and highly available. This workshop will focus on new, promising directions in achieving high software reliability by discussing the following questions:

- What are the emerging software development paradigms that have the potential of changing the current test-centered verification techniques to correct-by-design development methods?
- What should be the balance between formal and informal methods, engineering and artistry, evolution and rebuild?
- What is the role of open standards and open-source software development, end-user programming, and other radically different development models?
- What effect will legal and societal demands on software certification have on changing the current balance between software/system modeling, analysis, and testing?
- What are the reliability metrics for real-time embedded software for FCS?