The disciplines of requirements engineering (RE) and software architecture (SA) are fundamental to the success of software projects. Even though RE and SA are often considered separately, it has been argued (e.g., by the Twin Peaks model) that drawing a line between RE and SA is neither feasible nor reasonable as requirements and architectural design processes impact each other. Requirements are constrained by what is feasible technically and also by time and budget restrictions. On the other hand, feedback from the architecture leads to renegotiating architecturally significant requirements with stakeholders. The topic of bridging RE and SA has been discussed in both the RE and SA communities, but mostly independently. Therefore, the motivation for this ICSE workshop is to bring both communities together in order to identify key issues, explore the state of the art in research and practice, identify emerging trends and define challenges related to the transition and the relationship between RE and SA.

Workshop Goals

The workshop will provide a venue for researchers, practitioners and educators from the areas of RE and SA to discuss their experiences, forge new collaborations, and explore innovative solutions that address the challenges of the Twin Peaks model. The workshop will provide participants with an opportunity to become familiar with the relationship between RE and SA in the greater context of software engineering, rather than in an isolated context of either RE or SA. The outcomes of the workshop are expected to be an improved understanding of key issues and challenges at the intersection of RE and SA, an understanding of the state of the art in research and practice, and a list of outstanding issues that will contribute towards establishing a research agenda for future researchers in the field.

Call for Papers

The workshop will address a variety of topics at the intersection of requirements and software architecture including, but not limited to, the following:

- Eliciting, specifying, or managing architecturally significant requirements
- Transforming requirements into architectures in model-driven engineering processes
- Recording and representing knowledge as it interacts with requirements knowledge
- Tool-support to the various informational and processing needs (e.g., visualization of interactions among architectural and requirements knowledge)
- Twin Peak practices in specific domains and/or environments, e.g., safety-critical, complex, agile
- Industrial studies and empirical studies on relating requirements engineering and architectural design

Full papers (6-8 pages): Describing original research.
Experience Reports (4-6 pages): Presenting case studies empirical experiences with a particular RE or SA practice, pattern or technique on a large scale system or agile project.
Position papers (3-5 pages): Emerging trends, inspiring new ideas, and early research.
Pedagogical papers (4-6 pages): Techniques, lesson plans, and assignments for teaching RE/SA topics.

Submission deadline: February 28th
Decisions to authors: February 28th
Camera Ready due: March 7th