CALL FOR PAPERS
4th International Workshop on Requirements Engineering and Testing (RET'17)

Sept 5, 2017 – Lisbon, Portugal – http://ret.cs.lth.se/17/

Important Dates
Paper submission: June 9, 2017
Author notification: June 30, 2017
Camera-ready version due: July 16, 2017

Theme and Goals
The objective of the RET workshop is to explore the interaction of Requirements Engineering (RE) and Testing, in research and industry, and the challenges that result from this interaction. RET provides a forum for exchanging ideas and best practices for aligning RE and testing, and helps foster industry-academia collaboration on this topic. The workshop encourages participant interaction through panel discussions of presented papers, through tool demos and by an interactive session during which the participants together define a roadmap for research in the area of RET.

Submissions should either discuss challenges involved in RET alignment, or propose approaches on how to best align RET. This can include processes, practices, artifacts, methods, techniques, tools and softer aspects like the communication between roles in the development lifecycle. We particularly encourage submissions from industrial practitioners or those working with industrial partners.

Topics of Interest
RET'17 solicits papers that discuss both RE and Testing aspects, and the interaction between them. The list of suggested topics is based on the mapping exercise conducted during RET'14:

- Processes and practices for supporting RET alignment
- Requirements-based testing processes and techniques, e.g. optimizing testing according to req. prioritization
- Testability of requirements, impact of requirements quality to test quality
- Model-based testing, test-driven and behavior-driven development
- Traceability between requirements and tests, also including requirements evolution and regression testing
- Metrics for assessing and monitoring RET alignment
- Context-specific RET alignment, e.g. for OSS development, continuous deployment, safety-critical systems
- RET at different phases of the development lifecycle
- Scalability of RET alignment, RET for big data
- RET alignment for non-functional and quality requirements
- Organisational aspects of RET alignment including training and education

- Automation techniques to support RET (e.g. based on machine learning, information retrieval)
- Collaboration and communication between requirements engineers and testers
- "Good enough" RET alignment, balancing effort and return of investment
- Empirical research on RET alignment
- Tools supporting RET alignment, e.g. management, visualization, monitoring

Paper Formatting
We invite submission of papers of the following types:

- **Technical Papers** (max. 8 pages): Full papers presenting research results or industrial practices related to the coordination of Requirements Engineering and Testing.
- **Position papers** (max. 4 pages): Short papers introducing challenges, visions, positions or preliminary results within the scope of the workshop. Experience reports and papers on open challenges in industry are also welcome.
- **Tool papers** (max. 4 pages): Short papers that introduce tools supporting RET alignment. A tool paper must include either a URL to a screencast of the tool in action, or an executable version of the tool for evaluation by the program committee.

Technical papers will be evaluated with respect to the research contribution of the work, with preference being given to work that significantly relates RE and testing. Position papers and tool papers are short papers that present early results and outline challenges and positions related to the relationship between RE and testing, and will be evaluated according to their ability to generate discussion and suggest novel and interesting areas for future research. Work related to industrial problems and solutions, or motivated from an industrial context is especially welcome.

Submission and Proceedings
Authors should submit through the RET'17 submission site (https://easychair.org/conferences/?conf=ret2017). Papers must be written in English and conform to the RE 2017 IEEE formatting and submission guidelines. For details see the workshop site. All papers will undergo a rigorous review by at least three members of the program committee. Accepted papers will be published in the IEEE Digital Library.