

SPLIT 2008

5th Software Product Lines Testing Workshop (SPLIT 2008)

Limerick, Ireland — September 8, 2008

at the 12th International Software Product Line Conference
(SPLC 2008)

www.biglever.com/split2008

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Venue

SPLIT 2008 will take place at SPLC
2008 in Limerick, Ireland.

See <http://www.lero.ie/splc2008/>
for more information about SPLC
2008 and the venue.

Call for Papers

Software product line engineering has shown to be a very successful paradigm for developing a diversity of similar software products at low cost, in short time and with high quality.

Similar to the development of single software products, the key aim of testing in software product line engineering is to uncover the evidence of faults in the development artefacts. However, significant differences between product line engineering and the development of single systems exist. Those differences lead to specific challenges for product line testing.

Efficient and effective product line testing is crucial to the success of a product line in an organization and it depends heavily on establishing the appropriate testing strategies, techniques and methods.

The 5th SPLIT workshop, like its successful predecessors, will address open challenges of testing in a product line setting (see list of topics below).

In addition to previous SPLIT workshops, SPLIT 2008 will seek contributions which discuss how we can learn from other research areas and how other areas can benefit from product line testing solutions. Those areas include, but are not limited to, service-oriented architectures (SOA), model-driven development and agile methods.

Workshop Format

SPLIT 2008 will provide an opportunity to discuss innovative ideas, setting a research agenda, and starting collaborations on diverse topics of product line testing and related areas. To this end, SPLIT 2008 will bring together both testing researchers and practitioners.

The workshop will be a highly interactive event. Each paper session will be organized in order to stimulate discussions. Dedicated working sessions will be devoted to specific issues in software product line testing.

Topics (non-exclusive)

- Test case design techniques and test case generation, including approaches for handling variability in test artefacts (e.g., test models and test cases)
- Definition and measurement of test coverage and test effectiveness, including traceability from requirements to test cases
- Techniques for increasing test efficiency and effectiveness, including test automation and testing tools, as well as approaches for minimizing redundant testing across a collection of similar products
- Test of quality characteristics, like performance and reliability
- Use of formal approaches for testing; e.g., model checking
- Application of product line testing strategies and techniques in the context of other development paradigms. Development paradigms of relevance include service-based systems engineering & service-oriented architectures (SOA), agile & test-driven development, as well as model-driven development and MDA
- Application of testing strategies from other development paradigms in the product line context
- Fault models for software product lines. What faults are unique to a software product line?

Submissions

Position papers should be no longer than 6 pages (in IEEE conference 8.5x11 inch format) and submitted as a PDF file. Information on how to submit the papers can be found at the workshop web site at <http://www.biglever.com/split2008>

Submissions will be evaluated according to the relevance and originality of the work and whether they have the potential to generate discussion among the workshop participants.

Publication

Accepted papers will be published in a separate volume of the SPLC 2008 proceedings.

Important Dates

Submission Deadline:	June 15, 2008
Notification of Acceptance:	July 10, 2008
Camera Ready Versions Due:	July 15, 2008
Workshop Date:	September 8, 2008

