Special issue on
Quality Engineering for Software Product Lines

SCOPE Large software production companies have become increasingly aware of the employment of software product lines to gain potential advantages in terms of time-to-market, cost, efficiency and agility. The success of software product line practices relies on the employment of optimized processes and technologies that are both valid and useful in the context of strategic and business directives as well as software development tasks. Impressive steps have been taken in the development of supportive tools and techniques for modeling, customizing and realizing software product lines within the area of software reuse and component-based software engineering. The product line community is in its second decade of existence with the SPL conference serving as the premium forum for product line researchers and practitioners; however, the assurance of the quality of the software being developed using this approach and the satisfaction of various process metrics is an important ongoing direction of research which has received less attention. Some existing techniques from the areas of software architecture and also software quality evaluation have been adapted to software product lines, but yet more emphasis on the significant importance of quality engineering in software product lines is needed. The importance is seen in light of the fact that low quality software product lines have a ripple effect on the actual products that are derived from their customization.

SUGGESTED TOPICS:

- Architectural styles and patterns for product lines
- Evolution and maintenance of product lines •
- Product line lifecycle management
- Quality Assurance in product line processes
- Quality modeling in Software product lines
- Quality measurement in software product artifact
- Modeling non-functional requirements in product families
- Quality prediction for software from SPLs
- Quality attributes in domain analysis
- Semantically enhanced software product lines

TIMELINE:

- Submission Deadline: 15-Nov-2010
- Reviews Completed: 15-Feb-2011
- Major Revisions Due: 1-April-2011
- Re-reviews Completed: 1-Jun-2011
- Minor Revision Due: 15-Jun-2011
- Final recommendations: 1-Jul-11
- Final Manuscripts Due: 15-Jul-11

PAPER SUBMISSION DETAILS – Authors are invited to submit original research contributions to http://www.editorialmanager.com/sqjo. Authors should state in their cover letter to the EiC that "This manuscript is submitted for the special issue on Quality Engineering for Software Product Lines ". Submission instructions can be found under "Information for Authors" at:
http://www.springer.com/computer/programming/journal/11219

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