

1st International Workshop on Formal Methods in Software Product Line Engineering (FMSPLE 2010)

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Software product line engineering (SPLE) aims at developing a family of systems by reuse in order to reduce time to market and to increase product quality. The correctness of the reusable development artifacts as well as the correctness of the developed products is of crucial interest for many safety-critical or business-critical applications. Formal methods have been successfully applied in single system engineering over the last years in order to rigorously establish critical system requirements. However, in SPLE, formal methods are not broadly applied yet, despite their potential to improve product quality. One of the reasons is that existing formal approaches from single system engineering do not consider variability, an essential aspect of product lines.

The goal of the workshop “Formal Methods in Software Product Line Engineering (FMSPLE)” is to bring together researchers and practitioners from the SPLE community with researchers and practitioners working in the area of formal methods. The workshop aims at reviewing the state of the art in which formal methods are currently applied in SPLE in order to initiate discussions about a research agenda for the extension of existing formal approaches and the development of new formal techniques dealing with the particular needs of SPLE.