Abstract

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Assessing the Evolution of Software Product Lines Maintainability

Software Product Lines SPL are gaining importance in the software development field. Evaluating the quality attributes for SPL architectures is very crucial especially architecture maintainability as SPL are expected to have longer lifetime span. In this paper, we show that change propagation probability CP is helpful and effective in assessing the design quality of SPL architectures. We propose to use the CP to assess the evolution of the maintainability of the architecture of software product lines through different releases.