

AMPL: aspect multiple product lines

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Publication date

2020/3/6

Journal

International Journal of Computers and Applications

Pages

1-11

Publisher

Taylor & Francis

Description

The Software Product Line approach is well-known for the advantages it brings to the software-development field. However, single SPLs had been found to be inadequate in managing the variability of large scale and complex software-intensive systems. For this reason, although the Multiple Software Product Lines have been proposed as another solution to tame the complexity of SPLs, the adoption of an MPL has given rise to several challenges such as facilitating the reuse between SPLs, the complexity of the model as well as distributed-derivation. In this paper, we have presented a new methodology for MPLs engineering, which is called the AMPL. Our approach had helped the reuse management of MPLs through the two key concepts of separation of concerns and partial derivation. The various steps of the AMPL approach are illustrated in this paper and were validated in the context of an e-Government MPL ...