Software Engineering Seminar (WS 2016/17)

Automatic Selection of Features when Deriving a Product from a Software Product Line

Description

Software systems require complicated configurations to attain different functionalities desired by user. To model the configuration options, software product line and feature model are used. However a key challenge for deriving a new product is to find a set of features that optimize multiple objectives (e.g., minimizing cost and maximizing number of features [1, 2, 3]).

The student is supposed to focus on automated techniques for product line configuration and investigate the state of the art (approaches that also go beyond [1, 2, 3]).

This work might be optionally extended for a MS Thesis if novel feature selection algorithms can be engineered.

Prerequisites

A basic knowledge of Software Engineering I/II and Requirements Engineering and Software Architectures.

References


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