Safe Generation in Feature-Oriented Software Development

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Feature-oriented software development (FOSD) is an emerging paradigm that provides a multitude of formalisms, methods, languages, and tools for building well-structured, customizable, and extensible software systems. The idea is to decompose software along its end-user visible features and to generate tailored software systems based on feature selections of users. The set of valid feature combinations of a domain is called a software product line.

In this talk, I will give an overview of some recent developments in this field. Especially, I will concentrate on recent attempts to ensure correctness properties throughout the FOSD process. This includes work on type checking, formal verification, and feature interaction analysis of feature-oriented software product lines.

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