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EXTENDING THE UML TO MODEL SYSTEM FAMILIES

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ABSTRACT

The system family paradigm aims towards developing several applications out of a domain with just one underlying architecture. The foundation of this core architecture are common properties. With this prefabricated core, systems can be build faster. Modeling and development of common parts and variants have to be supported by methods and notations. This paper extends the Unified Modeling Language (UML) to model variants during analysis and design. The built-in extension mechanisms of the UML are used without changing the metamodel. An example demonstrates the application of the extension.