Model-driven engineering (MDE) plays a central role in many modern technology stacks. While MDE can help to improve software development and evolution, its tools are also subject to evolution and increasing complexity. This limits the application of MDE and is used to question their practicability and cost-effectivness.

GECO addresses these issues of complexity, evolution and reuse for code generators as central element of MDE approaches. The solution provided by GECO is based on the following three approaches supported by tooling and frameworks:

1. Metamodel partitioning and modularization based on metamodel syntax and semantics
2. Modularization of generators along metamodel partitions into generator fragments
3. Modularization of fragments based on technical and semantical considerations

Reiner Jung studied computer science at the University of Oldenburg focusing on software engineering and modeling. During his studies, he worked at a web development company creating code generators. After graduation, he joined the software engineering research group in Kiel, where he designed domain-specific languages, code generators and researched software evolution.

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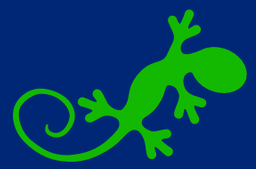
Software Engineering Group

Generator-Composition for AO-DSLs

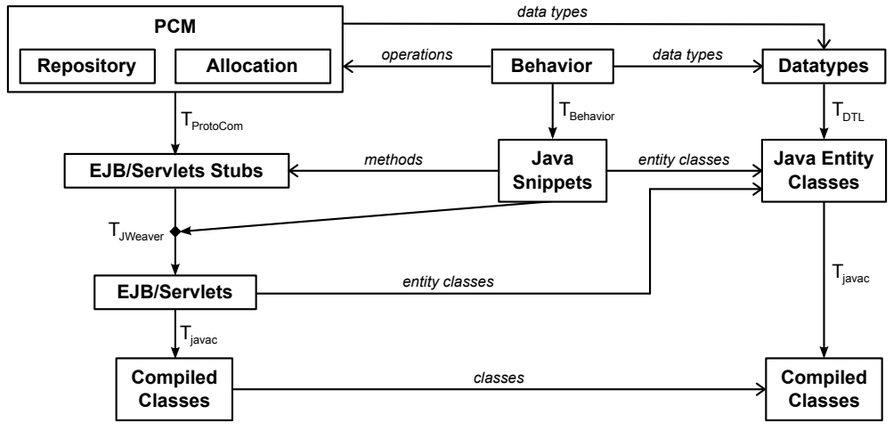
Reiner Jung

KCSS
2016/4

# Generator-Composition for Aspect-Oriented Domain-Specific Languages



Reiner Jung

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