

MASTERTHESIS

LANGUAGE ENGINEERING FOR MODEL DRIVEN PROCESS DEVELOPMENT

Ansprechpartner



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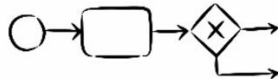
From now on, the Chair for Software Engineering at the RWTH Aachen offers the following master thesis:

TASK

Agile development continues to revolutionize software systems engineering nowadays. Key to establish and maintain agility during large-scale projects are well-conceived and optimized business processes. Model driven techniques allow to analyze these processes and find automated optimizations. A nowadays established standard for modelling such processes is the Business Process Modeling Notation developed by the Object Management Group. With MontiCore, the SE-chair has developed a tool to engineer domain specific languages (DSLs) and established a broad DSL library.

In the scope of this thesis, you will develop a BPMN DSL for automated generation of workflows, simulation and testing.

BPMN 2.0



The task of this theses is to engineer a MontiCore BPMN language in a way that enhances automation. You will investigate existing BPMN languages, tools and evaluate the language within realistic use cases. Thereby, you contribute to our research and gain insight into project management and process optimization.

FOCUS AREAS

- Investigation of current BPMN use cases and DSL integration as well as tools
- Development of a MontiCore Grammar for BPMN for automated analyses, testing and simulation
- Evaluation of the language on the basis of realistic, sophisticated business use-cases

PREFERABLE EXPERIENCE

- Software Language Engineering
- Behavior-Modelling experience