

Master
Modellbasierte Realisierung von Resilienztechniken
Model-based Realization of Resilience Techniques

Motivation

Resilience is the ability of a system to withstand adversities and to recover in case of system failure.

We want to explore, categorize, support and implement resilience techniques with model-based methods.

Tasks/Goals

The tasks that must be supported in this thesis are listed in what follows:

- Collect and categorize resilience techniques.
- Research for 20 model-based implementations of this techniques.
- Describe 10 model-based techniques in detail (e.g. applicability, examples)
- Implement an automated applicability check for 3 techniques
- Implement 1 automated model-based application of 1 technique.

Requirements

Excellent UML, BPMN and Meta-Modelling skills

Remarks

The opportunity to cooperate in writing research paper after the successful submission of the thesis will be provided.

Organizational

Kontakt/Contact:
Marco Ehl (mehl@uni-koblenz.de)
