Seminar series of the Graduate School GRK 2078

Referee:	**Prof. Dr.-Ing. Anne Koziolek** Chair Institute for Program Structures and Data Organization
Date:	Tuesday, January 17, 2023
Time:	14:00-15:00pm
Location:	Building 10.23, 3rd floor, seminar room 308.1 Please note that you can also participate in the event online
Title:	**Modelling for Continuous Software Engineering**

Abstract

„Today, there still is a perceived mismatch between agile, code-centric software development with concurrent requirements engineering and software design on the one hand and model-based software engineering, which provides different views on the software system for documentation and quality analyses on the other hand. With our research, we want to conciliate model-based software engineering with development processes that have fast and agile feedback cycles and thus combine the benefits of both approaches.

In particular, we are interested in providing systematic, yet low-cost model-based design space exploration to support making good design decisions, which are a major success factor for mission-critical software-intensive technical systems. This support shall enable well-informed trade-off decisions in software design, in requirements elicitation and in requirements analysis while at the same time incurring minimal overhead for the developers.

In this talk, I will present selected recent insight about software engineering, software architecture and how to combine them with agile approaches. Additionally, I will talk about our current research directions and plans, including research on modelling software architectures and performance prediction for scientific applications.“

You are cordially invited to take part in the event.

Prof. Dr.-Ing. Thomas Böhlke
(Spokesperson of GRK 2078)