



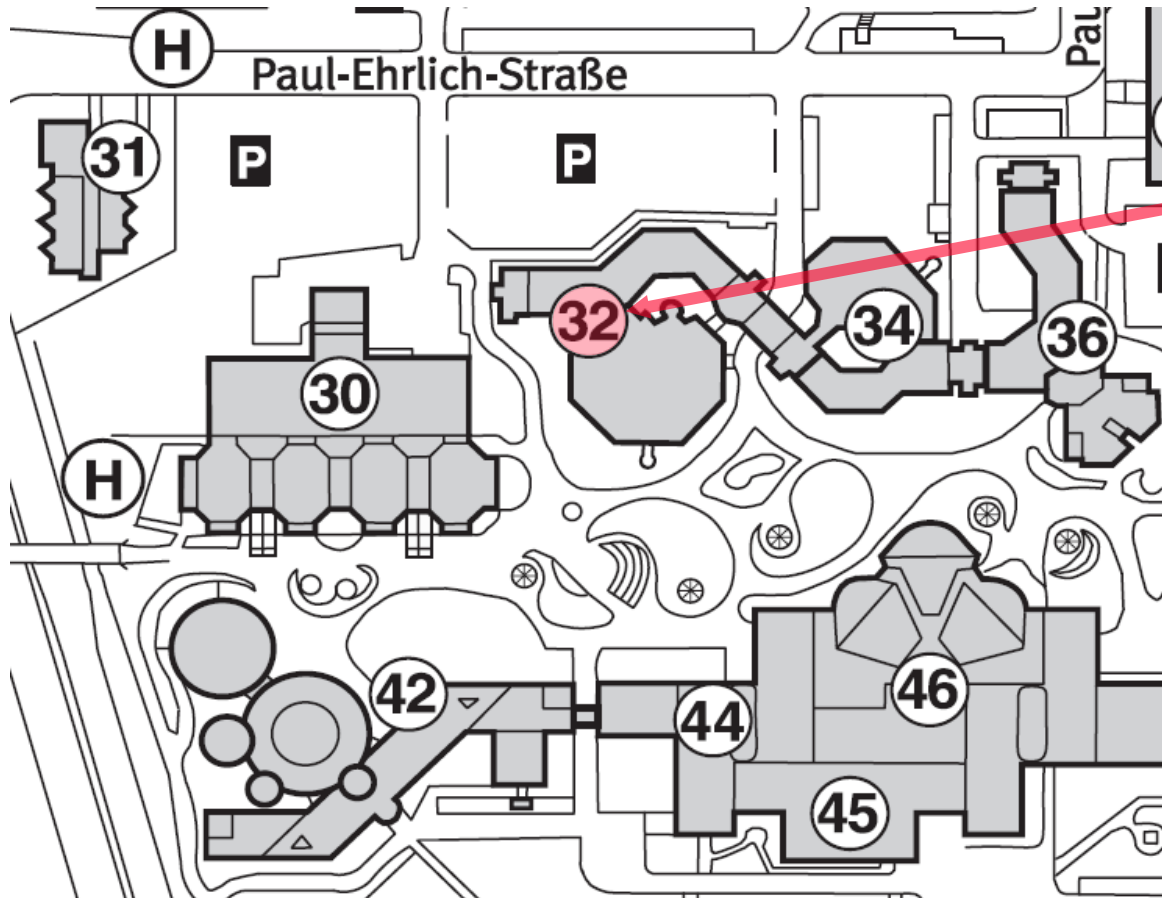
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software engineering dependability

Safety and Reliability of Embedded Systems
(Sicherheit und Zuverlässigkeit eingebetteter Systeme)

Welcome!

- Lecture held by AG Software Engineering: Dependability
 - <http://seda.informatik.uni-kl.de/teaching/suze/ws2010>
- Lecturer
 - Prof. Dr. Peter Liggesmeyer
 - Email: liggesmeyer@informatik.uni-kl.de
 - Office hours on appointment
 - Room: 32-425
- Tutor
 - M.Sc. Carolina Gómez
 - Email: gomez@cs.uni-kl.de
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 - Room: 32-433



AG Software Engineering: Dependability

Technical University of Kaiserslautern

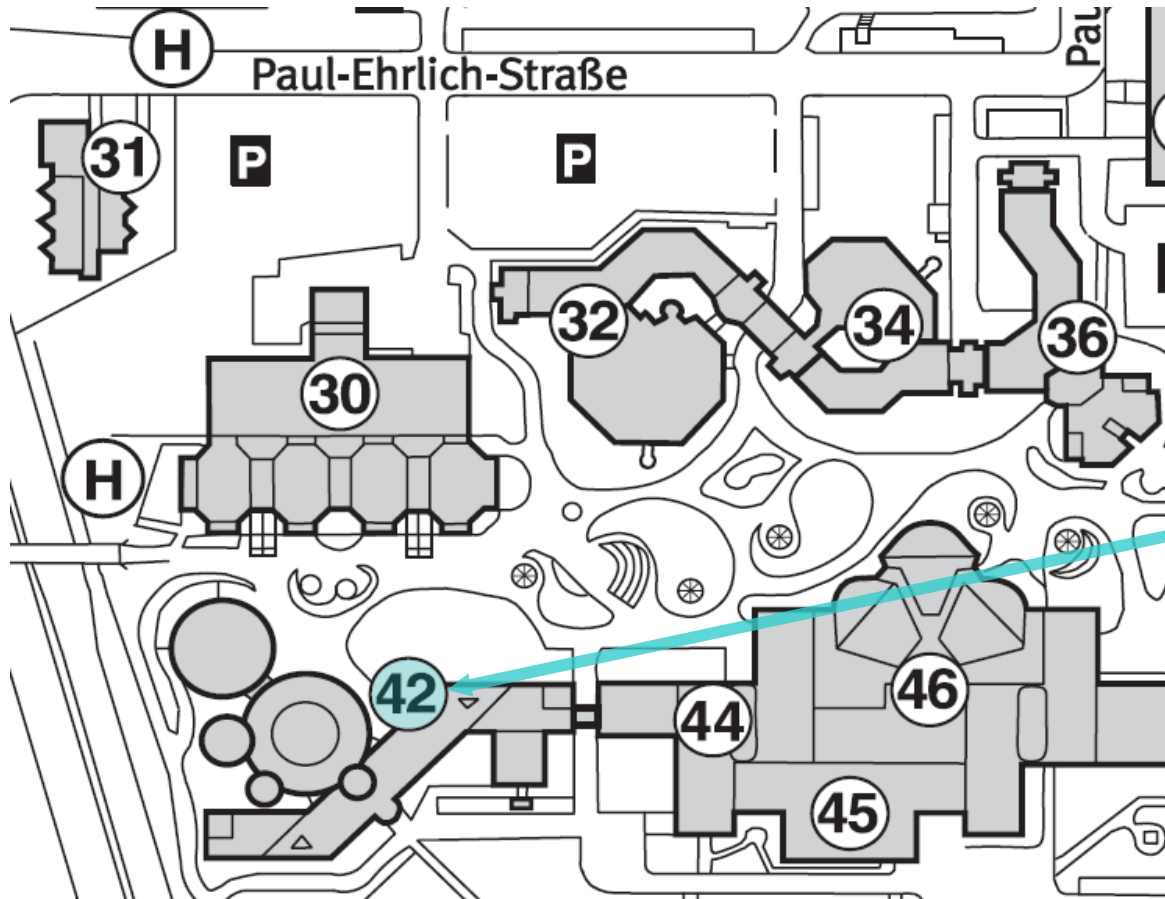
Building 32, 4th Floor

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Germany

- Schedule
 - Lecture (2 SWS)
 - Held weekly
 - Wednesday, 13:45 - 15:15, Room 42-110
 - Tutorial (1 SWS)
 - Held every two weeks (usually)
 - Thursday, 13:45 - 15:15, Room 42-110
 - Start of tutorials: Thursday, November 4th
- Grading by written or oral exam (mode and date will be announced within lecture and tutorial)



Lecture and Tutorial:
Room 42-110

- Lecture notes
 - Available online at:
<http://seda.cs.uni-kl.de/teaching/suze/ws2010/material/folien/>
 - Format: PDF
- Problem sheets
 - Available online at:
<http://seda.cs.uni-kl.de/teaching/suze/ws2010/material/excercise/>
 - Format: PDF
 - There will be no solutions published, so it is highly recommended to attend the tutorial sessions!
 - Please note that there is no handing-in and no marking of solved problem sheets

- Goals of lecture
 - Get to know selected formal and stochastic techniques for safety and reliability analysis of software and systems
 - Be able to use particular analysis methods in practice

- Topics
 - Introduction
 - Terminology
 - Risk Acceptance Methods
 - Safety and Reliability Analysis Models
 - FMECA (Failure Modes, Effects and Criticality Analysis)
 - Fault Tree Analysis
 - Symbolic Model Checking
 - Stochastic Reliability Analysis
 - Quality Assurance and Quality Management

- Goals of tutorial
 - Work-out solutions to problem sets
 - Clarification of issues concerning the lecture
 - But: The intention is not to provide a substitute for the lecture!
- Topics
 - Same as lecture