

# Scientific Work

## Variability in Cyber-physical Production Systems

Kristof Meixner    Stefan Biffel



Kristof Meixner

- *Co-supervisor of Scientific Work Seminar*
- Long-term SEPM & ASE tutor
- Long-term Dev @ CDL FLEX
- PhD student @ CDL SQI
  - Variability in Cyber-physical (Production) Systems
- Co-supervisor of student theses

- We will have an interesting scientific work seminar on *Variability (Modeling) in Cyber-physical (Production) Systems*
  - There are thesis topics and practica too
- Variability allows adaptation of systems
  - at *design-time*, e.g., car configurator
  - at *run-time*, e.g., sending power of routers based on inference
- Research in Variability Modeling and Management is of growing interest

# Simple Variability Example

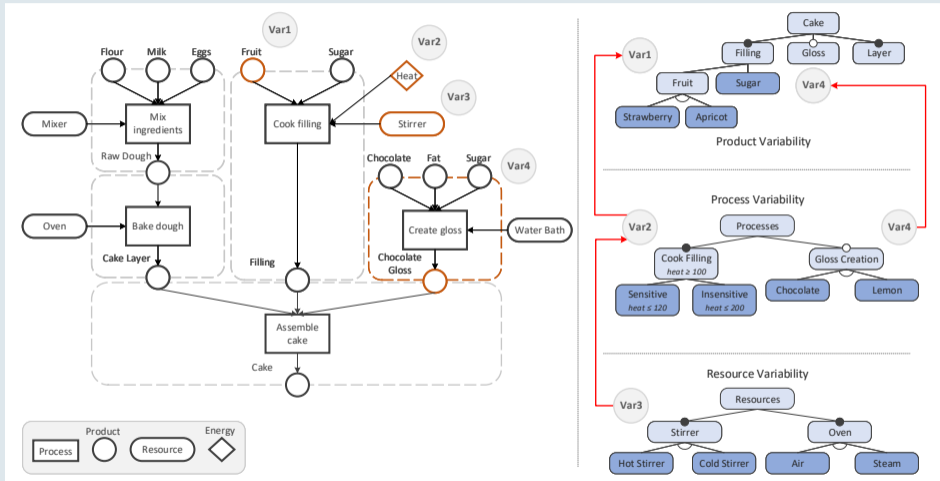


Figure 1: Cake baking example

- We will look at relevant papers in variability research
  - Overview papers as intro
  - In-depth papers as afterwards
- We will analyze the literature
- You will write a report on papers
- Therefore, we search for skilled students

1. If you are interested ...
  - 1.1 Registration for the seminar at the counter
  - 1.2 Personal discussion with Stefan Biffel or Kristof Meixner
  - 1.3 Fill out the questionnaire (see QR Code or [goo.gl/forms/OPwrzbKbGeHKdufN2](https://goo.gl/forms/OPwrzbKbGeHKdufN2))
2. We will contact the registered students after *all* questionnaires are completed
3. Next meeting on March Wed, 13th, 13:30h, Room FAV-HGO111



Figure 2: Questionnaire

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## Security and Quality Improvement in the Production System Lifecycle (CDL SQI)

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