Seminar
Advanced Topics in Requirements Engineering
Kickoff

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Software Engineering
University Freiburg

October 14, 2024

Overview

- Language: English
- Participants: 6
  - 2 groups, 3 participants each
- Mode: block seminar
  - The ”real” kickoff: 4. November 2024, 14:00 - 16:00 c.t.
  - 3 individual meetings with your supervisor during the teaching period
  - Talk session: 10. & 11. February 2025, 09:00 - 17:00 s.t.
    (along with our proseminar automata theory)
- Topic: Requirements Engineering
- Goal: Preparation and communication of a scientific topic

Topics

- Requirements quality research: a harmonized theory, evaluation, and roadmap (Frattini et al.)
- nl2spec: Interactively Translating Unstructured Natural Language to Temporal Logics with Large Language Models (Cosler et al.)
- Towards Realizability Checking of Contracts using Theories (Gacek et al.)

Procedure of the seminar

Giving a presentation:

Procedure of the seminar

Giving a presentation:

- Preparing the outline
- Meeting with your supervisor
- Finalizing the outline

Outline - Your Presentation Plan

- Brief introduction to the topic
- Structure of the presentation
- Aspects of your topic that you will present/ignore (why?)
- Examples included in the presentation (what do they illustrate?)
- Which definitions will be presented formally/informally (why?)
- Which notation will be used (why?)
- . . .

Length of the outline: approx. 5 pages

Procedure of the seminar

Giving a presentation:

- Preparing the slides
- Meeting with your supervisor
- Finalizing the slides

Procedure of the seminar

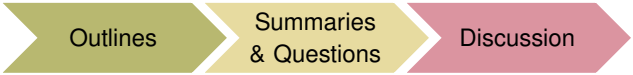
Giving a presentation:

- Talk (25 minutes)
- Discussion (5-10 minutes)

Procedure of the seminar

Giving a presentation:

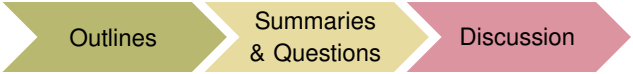
Participating in the discussions:



Procedure of the seminar

Giving a presentation:

Participating in the discussions:

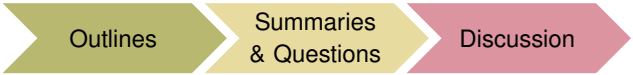


- Reading the outlines of the other participants

Procedure of the seminar

Giving a presentation:

Participating in the discussions:

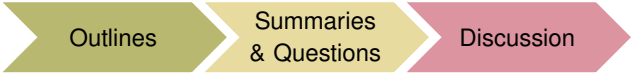


For each outline:
- Short summary (5-7 sentences)
- Elaboration of 3 meaningful questions

Procedure of the seminar

Giving a presentation:

Participating in the discussions:

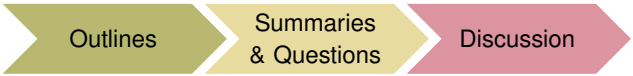


- Active participation in the discussions

Procedure of the seminar

Giving a presentation:

Participating in the discussions:



Grading:

45 % Outline
45 % Slides & Talk
10 % Summaries & Questions
Each part must be passed individually!

Participating

Booking procedure

- Place booking request in HisInOne
- Write an email to hauffn@informatik.uni-freiburg.de:
  - explain your background in requirements engineering (courses taken, work experience,..) in max. 3 sentences
  - name your preferred topic
  - latest on Monday, October 21st

Admitted?

- Place topic requests in Ilias
  - latest on Wednesday, October 30th
- You will receive information on how to proceed
  - latest on Monday, November 4th