

Empirical Methods in Software Engineering Research (WS 2020/21)

Master Seminar

Software Engineering Group — 04.11.2020



Masterseminar EMSER

- Lecturer:
 - Prof. Dr. Wilhelm Hasselbring
- Topics:
 - Are available at OLAT

Selection process for seminar topics

- Within the folder "Seminarthemen" you may find the initial papers for individual seminar topics.
 - Each student needs so select one such topic.
 - These initial papers are only the start for your topic paper.
 - I expect that for your paper and presentation, you conduct an additional literature research on the topic.
- The selection process for seminar topics works as follows:
 1. You create a new file folder with your name (Pattern: LastnameFirstname, example: PotterHarry) as subfolder of the folder "Seminarthemen".
 2. Download your preferred initial paper to your local laptop / PC.
 3. Delete the paper from the folder "Seminarthemen".
 4. Upload your local copy of the initial paper to your personal folder at OLAT.
- Please note that this is an "eventually consistent" process, since there's not transactional control of Steps 2 and 3 from above. First come, first served.
- You've write access to all folders. I assume that there are no "malicious" participants attending this course. Please be aware that OLAT monitors all modifying file and folder activities.
- There's a quota of 50 MB for the folder "Seminarthemen". I'll create another such folder in case we need more storage.

Time Schedule

- Kickoff 04.11.20
- Deadline for paper draft 20.11.20
- Feedback by lecturer 04.12.20
- Deadline full paper, 10 pages 08.01.21
- Feedback by lecturer 22.01.21
- Deadline review 22.01.21
- Deadline final paper incl. slides ??..02.21
- Presentation as block event ??..02.21

You need to adhere to the time schedule!

Delivery of the paper draft (Version 0)

- Use the LaTeX template from “General Information”
- File delivery via OLAT within your personal folder:
 - Filename: Deliverables/<Lastname><Firstname>_v0.pdf
- Ingredients
 - Abstract (preliminary)
 - Paper structure
 - Up to a depth of 2, i.e., 1 Section, 1.1 Subsection
 - Vorschlag siehe Folie "Gliederung"
 - Short summary for each top-level section
 - 1-3 sentences and / or some keywords
 - Initial references list, use BibTeX from the start!
 - This should include the provided initial paper, but remind that you need to search for additional papers on the topic!

Delivery of the full paper (Version 1)

- File delivery via OLAT within your personal folder:
 - Filename:
Deliverables/<Lastname><Firstname>_v1.pdf
- Content
 - Complete paper, 10 pages
 - No Todos, empty paragraphs, etc.

Requirements on your paper

- Language: English
- Length: 10 pages
 - Not more, not less!
- Required layout: Springer LNCS
 - LaTeX template in OLAT-Repository, folder “General Information”
- Plagiarism, if detected, results in failure
 - Explicitly cite sources, if you quote
- Figures, Tables, Listings, etc
 - Use the respective LaTeX environments, with captions and labels
 - Always refer to the floating elements from the text, at least once
- Please note, that all deliverables (draft/final paper, review, slides, presentation) contribute to your module grade.

(Typical) Paper Structure

Abstract

1. Introduction

Last paragraph surveys the following paper sections

2. Foundations

3. First section of topic

4. ...

5. ...

6. Conclusions

References (generated via BibTeX or Biber)

Delivery of the Review

- File delivery via OLAT within your personal folder:
 - (Cross) Review of paper written by other student X
 - Filename:
 - Deliverables/<Name of X>_reviewedby_<Your own name>.pdf
 - Review structure, one page in total
 - Name of reviewer, title of the paper
 - (Your) Summary of the paper (1/4 page)
 - (Your) Evaluation of the paper's structure (1/4 page)
 - (Your) Evaluation of the paper's (1/2 page)
- No numerical marks 😊

Delivery of the final paper

- File delivery via OLAT within your personal folder:
 - Filename:
Deliverables/<Lastname><Firstname>_final.pdf
- Feedback by the lecturer and your peer reviewers should be incorporated in this final version!
- Deliver your slides together with the final paper

Presentation

- In English
- Time duration:
 - ca. 20 min. presentation + 10 min discussion.
- Typical structure
 - Topic and motivation
 - Agenda
 - Content (might consist of multiple sections)
 - Conclusions
- An alternative to Powerpoint or LibreOffice is the Beamer package in Latex

Writing in English

- References to figures, sections etc. start uppercase
 - "In Figure | Section 1 ..."
- Capitalization of headings
 - All words in headings (not captions) should be capitalized, except conjunctions and prepositions (e.g., on, of, by, and, or, but, from, with, without, under)
- Scientific writing
 - Don't start sentences with "But, Because ..."
 - Don't use common speech or slang
 - Avoid long sentences
 - Oxford comma: A, B, and C

Literature search

- Google Scholar: <http://scholar.google.com>
- IEEE: <http://ieeexplore.ieee.org>
- ACM: <http://portal.acm.org/>
- DBLP: <http://www.dblp.org/search/>
- <https://www.researchgate.net/>
- More Information:
<http://www.se.uni-kiel.de/en/student-theses/hints/scientific-work>