

TDDE46: Software Quality

Seminar 2

Theme: Software Process Improvement

Objectives:

1. To understand software process evaluation and improvement
2. To apply process evaluation and improvement on bachelor projects
3. A presentation about a topic of interest
4. A discussion about the challenges/issues/problems, faced by TDDE46 students in coaching
5. Get to know each other even better.

Seminar preparation:

1. All students must have made logbook entries. Prepare a five-minute presentation about one of them. Make sure that each of you have a unique study. To coordinate this, we have an excel file called Presentation at Seminar2.xlsx in the course documents folder on Lisam. Enter a reference or a one-sentence description of what you will bring to the table. If someone else already entered the same material, take your second-best choice. If you have found a topic that is highly interesting for you, make a presentation about that. You don't need to stick to the theme of the seminar.

https://liuonline.sharepoint.com/:x:/r/sites/Lisam_TDDE46_2022VT_O2/CourseDocuments/Presentation%20at%20Seminar2.xlsx?d=w984b538050924c2792dc9556a25fca5e&csf=1&web=1&e=rrkaUZ

2. Group2 makes a little longer power-point presentation on an interesting topic. Each topic should cover 3-4 peer-reviewed papers. The topic does not need to be connected to the seminar theme. The requirements on presentation techniques and critical discussion are high.

During the seminar:

10:15-10:35 (group) Individual presentation of your logbook entry within your own group focusing on:

1. What are the main findings from your study?
2. What problems, challenges, advantages, solutions, etc. have been shown in the study?
3. Mention two things you learned? Take notes about this!

10:35-11:00 (cross-group) Discussion & Brainstorm

In the new constellations, present things learned in your homegroup. Discuss one or several of the following:

1. Do the result from the presentations trigger further topics that would be interesting

to study? What would you like to know more about?

2. Can the outcome of the presentations be used in the coaching project?
3. What might be typical processes of the bachelor projects?
4. How can these be measured and improved with reasonable resources?

11:00-11:15 Break

11:15-11:35 (all) Presentation of a chosen topic by a group Try to answer the following questions:

- 1) Why does a selected topic require attention from researchers and practitioners?
- 2) Does the problem/issue/challenge relate to your interests?
- 3) What is a suitable method, presented in paper or in your opinion, to address the problem/challenge?
- 4) What solutions are presented in paper or in your opinion, to address the problem/challenge?
- 5) How can we use our knowledge from this presentation/reading towards improving the BS projects? (Important)
- 6) How can we use our knowledge from this presentation/reading towards improving our methods/ways for helping BS students? (Important)

11:35-12:00 (all) Discussion about plans for the bachelor projects

Topics can include Coaching style, communication means, order of topics and preparations for the next workshop.

Out of ideas about what to study?

CMMI is a framework for process improvement. It consists of several process areas where each area is described in terms of goals that must be met to claim that you fulfill the process area. There are also practical hints of how to reach the goals. Select a process area that is of interest to you and/or can be used in the TDDD96 projects.

Sources:

The entire standard:

<http://www.sei.cmu.edu/library/abstracts/reports/10tr033.cfm>

A tutorial:

https://www.tutorialspoint.com/cmmi/cmmi_overview

There is a major conference in process improvement called PROFES. Several of their proceedings are published at Springer which are available from the LiU library for free. Browse the content for interesting papers.

<https://www.profes-conferences.org/proceedings.php>