

Seminar on Enterprise Software

Fabrizio Maria Maggi

f.m.maggi@ut.ee

Goal

To help you to deliver
a high-quality master thesis on time

- **Spring:** Focus on Literature reviews
- **Autumn:** Thesis Development

Requirements for Pass Grade

- Attendance
 - **At most 1 absence** is allowed in the **presentation sessions** (the introductory seminar does not count)
 - Additional absences are allowed only for: **maternity, documented health reasons, military duties**
 - Erasmus students (who are abroad during the course) are not required to attend the presentations
 - People who moved to Tallinn are suggested to register to the seminar that takes place in TUT, which gives 3 credit-points and is designed in a similar way as the seminar on Enterprise Software. The course code is ITX8301 and the title is Masters seminar I (or ITX8302 - Masters Seminar II, whichever is available this semester).

Requirements for Pass Grade

- In due time (all deadlines are set to 23:59 (EEST))
 - Submit topic, supervisor and presentation time slot (via e-mail f.m.maggi@ut.ee) (**4 October**). By this deadline we will also discuss what to do for people who are already working on the thesis report and want to improve it. . See <https://sep.cs.ut.ee/Main/StudentProjects2019> for projects offered by the Software Engineering & Information Systems Research Group.
 - Submit report and slides by **Sunday before your presentation** (via e-mail f.m.maggi@ut.ee)
 - (**8 December**) Erasmus students should assume that they present in slot 6 with deadline 8 December and by then submit report, slides and screencast of the presentation
- **Score at least 3 out of 5 in each of the two evaluation criteria:**
 - Quality of Presentation
 - Quality of Written thesis report

Schedule

- **13 September**
 - Introductory seminar
- **4 October** - deadline for identifying topic, supervisor and presentation time slot (via e-mail f.m.maggi@ut.ee)
- **8 November** – student presentations start
 - 8 November, 15 November, 22 November, 29 November, 6 December, 13 December
 - *After every presentation I will give individual feedback about oral presentation, slides and written report*
- **8 December** Erasmus students should assume that they present in slot 6 with deadline 8 December and by then submit report, slides and screencast of the presentation (via e-mail f.m.maggi@ut.ee)

Presentation

- Present the following:
 - The problem statement
 - Review of the state of the art
 - Summary of what you plan to do in terms of contribution and optionally evaluation
- Each student has a time-slot of 15 minutes: 12 minutes for the talk + 3 minutes for Q&A

Criteria for Evaluation of Presentation

- The lecturer will give a grade to your presentation based on the following criteria (one point per criterion):
 - **Slides:** Is the amount of text appropriate? Are figures and tables used appropriately where possible?
 - **Public speaking/oratory:** Is the posture appropriate? Is the voice level and intonation engaging? Is the gesturing appropriate? Is the rhythm engaging?
 - **Structure:** Is the structure of the presentation clear? Are the transitions between logical parts of the presentation clearly articulated?
 - **Content:** Does the presentation highlight the main points of the paper? Is the level of detail appropriate? Are examples used appropriately?
 - **Timeliness:** Does the presentation use the allocated time appropriately? Is the time limit respected?

Presentation Schedule and Allocation

- Course Website:
 - <https://courses.cs.ut.ee/2019/enterprise/fall/>
- Message board:
 - <https://piazza.com/ut.ee/>

Tips for your presentation

- Writing and presenting literature review (by K. Mahmood)
 - <http://www.slideshare.net/kmahmood2/6-writing-and-presenting-literature-reviewkhalid>
- Preparing Effective Oral Presentations in 7.17 Project lab
 - <http://web.mit.edu/7.17/pdfs/OralPresentations.pdf>
- Research skills
 - <http://research.microsoft.com/en-us/um/people/simonpj/papers/giving-a-talk/giving-a-talk.htm>
- Oral Presentation Skills
 - http://people.engr.ncsu.edu/txie/publications/oral_presentation_skills.pdf

Requirements for Thesis Draft

- Templates and Guidelines: <https://www.cs.ut.ee/en/studying/guidelines-regulations>
- The **final draft (in total around 12-15 pages)** should contain the following
 - Title page
 - Abstract
 - Table of contents
 - Introduction / motivation / problem statement (section **Introduction**)
 - Literature review (section **Related work**)
 - Plan of the contribution
 - List of references
- The Introduction should contain: motivation, scope, research problem, research questions
- The Literature review should include at least 5-7 papers
- The length of the Literature review depends on the topic and the volume of relevant state of the art, but it should be roughly between 8 and 10 pages long
- The document should explain the expected contribution of the thesis and optionally how to carry on the evaluation (2-3 pages)
- The document should include well-formatted references

Evaluation of Thesis Drafts

- The lecturer will grade the drafts using the evaluation criteria 1-3 available at
 - *http://www.cs.ut.ee/sites/default/files/cs/retsenseerimisjuhend_thesis_grading_eng.pdf*
- Additional rules
 - Draft contains a copy/paste of more than 10 consecutive words from any source → -1 point per copied fragment
 - Reproducing/re-drawing 1 or 2 pictures or tables is tolerated, if you explicitly cite the origin of the picture/table in the caption, else -1 point

Tips for Writing a Thesis

- ***http://www.cs.ut.ee/sites/default/files/cs/soovitusi_2016.pdf***
- ***http://www.cs.ut.ee/sites/default/files/cs/lisasooovitusi_vormistamiseks_2016.pdf***
- 13 Ingredients of a Winning Thesis Proposal
 - ***<http://www.tadafinallyfinished.com/thesis-proposal.html>***
- How theses get written: some cool tips
 - ***<http://www.cs.toronto.edu/~sme/presentations/thesiswriting.pdf>***

Useful Material for Section: Related Work

*B. Kitchenham, "Procedures for performing systematic reviews,"
Keele, UK, Keele University, vol. 33, no. 2004, pp. 1–26, 2004.*

Systematic Literature Survey – Protocol

- An example: <https://arxiv.org/pdf/1705.02288.pdf>
- **Background**: The rationale for the survey.
- **Research questions** that the review is intended to answer.
- **Search strategy** that will be used to search for primary studies
 - including **search terms** and
 - **resources** to be searched.

Resources include

- digital libraries,
- specific journals, and
- conference proceedings.

Systematic Literature Survey – Protocol

- **Background:** The rationale for the survey.
- **Research questions** that the review is intended to answer
- **Software Engineering Digital Libraries**
 - Scopus
 - Web of Science
 - Google scholar
 - IEEEExplore
 - ACM Digital library
 - SpringerLink

Systematic Literature Survey – Protocol

- **Study selection criteria**
 - Study selection criteria are used to determine which studies are included in, or excluded from, a systematic review

Systematic Literature Survey – Protocol

- **Study quality assessment checklists and procedures**
 - The researchers should develop quality checklists to assess the individual studies
- **Data extraction strategy**
 - Design data extraction forms to accurately record the information researchers obtain from the primary studies
 - Linked to the research questions

Systematic Literature Survey – Protocol

- **Synthesis of the extracted data**
- Collating and summarising the results of the included primary studies
 - Descriptive (non-quantitative)
 - Quantitative

How bibliography needs to be organized?

References should appear as

- **Book with one author:**
 - Author, A. A. (2005). Title of work. Location/City, State: Publisher.
- **Book with two authors:**
 - Author, A. A., & Author, B. B. (2005). Title of work. Location/City, State: Publisher.
- **Book with more than two authors:**
 - Author, A. A., Author, B. B., & Author, C. C. (2005). Title of work. Location/City, State: Publisher.
- **Journal article:**
 - Sawyer, S., & Tapia, A. (2005). The sociotechnical nature of mobile computing work: Evidence from a study of policing in the United States. *International Journal of Technology and Human Interaction*, 1(3), 1-14.
- **A publication in press:**
 - Junho, S. (in press). Roadmap for e-commerce standardization in Korea. *International Journal of IT Standards and Standardization Research*.

How bibliography needs to be organized?

References should appear as

- **Edited book:**
 - Zhao, F. (Ed.). (2006). Maximize business profits through e-partnerships. Hershey, PA: IRM Press.
- **Chapter in an edited book:**
 - Jaques, P. A., & Viccari, R. M. (2006). Considering students' emotions in computer-mediated learning environments. In Z. Ma (Ed.), *Web-based intelligent e-learning systems: Technologies and applications* (pp. 122-138). Hershey, PA: Information Science Publishing.
- **Report from a university:**
 - Broadhurst, R. G., & Maller, R. A. (1991). Sex offending and recidivism (Tech. Rep. No. 3). Nedlands, Western Australia: University of Western Australia, Crime Research Centre.
- **Published proceedings:**
 - Deci, E. L., & Ryan, R. M. (1991). A motivational approach to self: Integration in personality. In R. Dienstbier (Ed.), *Nebraska Symposium on Motivation: Vol. 38. Perspectives on motivation* (pp. 237-288). Lincoln: University of Nebraska Press.

How bibliography needs to be organized?

References should appear as

- **Unpublished doctoral dissertation or master's thesis:**
 - Wilfley, D. (1989). Interpersonal analyses of bulimia: Normal-weight and obese. Unpublished doctoral dissertation, University of Missouri, Columbia.
- **A presented paper:**
 - Lanktree, C., & Briere, J. (1991, January). Early data on the Trauma Symptom Checklist for Children (TSC-C). Paper presented at the meeting of the American Professional Society on the Abuse of Children, San Diego, CA.
- **Web site:**
 - VandenBos, G., Knapp, S., & Doe, J. (2001). Role of reference elements in the selection of resources by psychology undergraduates. *Journal of Bibliographic Research*, 5, 117-123. Retrieved October 13, 2001, from <http://jbr.org/articles.html>

How bibliography needs to be organized?

In-Text Citations

- In-text citations should appear with author surname followed by publication year in parentheses
(Brown, 2002)
- Citing several references in-text:
 - In most organizations, data resources are considered to be a major resource (Brown, 2002; Krall & Johnson, 2005; Smith, 2001).
 - Brown (2002) states that the value of data is recognized by most organizations
 - “In most organizations, data resources are considered to be a major organization asset” (Smith, 2001, pp. 35-36) and must be carefully monitored by the senior management.
 - Brown (2002) states that “the value of data is realized by most organizations” (p. 45).

How bibliography needs to be organized?

In-Text Citations

- If you have organized the citations with number in brackets
 - In most organizations, data resources are considered to be a major resource [15; 30; 84].

How not to do presentation

- Don McMillan: Life After Death by PowerPoint
 - <http://www.youtube.com/watch?v=WGiePuNFXwY>
 - <http://www.youtube.com/watch?v=zDvm1PVtgWo>
 - <http://www.youtube.com/watch?v=lpvgfmEU2Ck>