

Assignment 5 – Systematic Literature Review (MAX 5 pages)

Assignment 5 is due March 16 (Monday), 2015 at 8.00am

Compose a Systematic Literature Review (SLR) based on based on a SE topic that interests you. Describe the purpose of the SLR, design the study according to SLR guidelines, i.e. define keywords, search string, inclusion and exclusion criteria, data extraction and synthesis, and quality assessment.

Describe the purpose of the SLR, design the study according to SLR guidelines, i.e. define keywords, search string, inclusion and exclusion criteria, data extraction and synthesis, and quality assessment. You should use the search string to search for papers in selected database(s), e.g. ACM digital library, IEEE Explorer, and Inspec (you will find Inspec here: engineeringvillage.com). Report how many papers (in total) you found with your search string.

Peer-review other groups' assignments, give feedback (both oral and written)

The Report

The report **must** have the following sections and content. It **must** be formatted using the IEEE Conference Proceedings format (available on the course homepage). **NOTE! You should spend most of your effort in the methodology section!**

1. Introduction

1. Statement of the problem
2. Existing literature of the problem
3. Why it is important to conduct research about the problem
 - For the above three items, a minimum of 5 trustworthy references (in total) must be used when describing the problem, why it is important etc.

2. Purpose of the study

- Purpose statement (concise and clear) leading into RQ(s)
 - I.e. describe the purpose of your SLR

2.1 Research question

- State a clear and concise main research question that will be investigated
- State another one or two sub research questions related to the main RQ.

3. Methodology

- Describe and explain the research strategy (i.e. SLR) and investigation methods that will be used for the study. Motivate your choice of experiment using relevant references.
- Search string including keywords and used databases
- Inclusion and exclusion criteria
- Data extraction
- Data synthesis
- Quality assessment

4. References

- Use one referencing style in the report. Be consistent with how you use it.
Recommended to use the style in the IEEE template

Acknowledgement

- Write who is responsible for what part

Peer-review and discussion

Be prepared to read and give constructive feedback to each others' work.

Maximum 1 page (given during seminars)

Criteria for judging the assignment:

- **Purpose statement** - is the central purpose of focus of the study clear?
- **Relevance** - is the stated research questions relevant? Does it address a real problem?
- **Suitable research design** - is the selected research design suitable to answer the RQ? IS the research design justified?