

A1: Literature Review (EME)

Uppgift

Background and Objectives

The purpose of this assignment is for you to gain insight into the process of searching for valid literature sources when performing background analysis and looking for related work in a research study. In this assignment you are expected to perform a systematic review of the literature (SLR) on a software engineering or computer science topic. When you select the topic for this assignment, please note that subsequent assignments build upon this assignment, so choose your topic wisely. Also, try to choose a topic that is close to an area where you would like to do your Master Thesis.

Tasks

This assignment is performed in groups of two. Exceptions have to be agreed with the course responsible. The group remains the same for assignments 1-3.

Kitchenham [4] (attached below) describes how to plan, conduct, and report a systematic literature review (SLR). Use these guidelines for performing the assignment, which includes planning a protocol for a SLR on a topic of your choice, and to also carry out the SLR using only one existing online database subscribed to by BTH. You will need to motivate and justify your choices regarding the research question, the search method and the synthesis. Proceed iteratively by adjusting results of early steps if necessary.

1. Build a group of two students or notify sfr@bth.se that you work alone.
2. Study examples of SLR [1-3].
3. Plan your SLR by defining and documenting your review protocol. Ensure that the research question(s) is narrow enough to make your SLR feasible within the time available (keep it to a minimum of 6 and a maximum of 10 articles if you can, but the actual number will depend upon your topic).
4. Conduct the pilot SLR by searching a single on-line database (e.g. IEEEExplore, ACM digital library).
5. Submit your report containing both the protocol, the pilot SLR and a reference list of the primary studies you included in your pilot SLR. Your report should have no more than 7 pages (3 for the protocol, 4 for the pilot SLR). The report shall be based on the template (adjust the template if necessary).

Evaluation

Criteria to be used in marking the systematic review:

- Were the inclusion/exclusion criteria reported and how were they applied?
- Was the search adequate?
- What criteria were used to assess the quality of primary studies and how were quality criteria applied?
- How were the data extracted from the primary studies?
- How were the data synthesized?
- Where the basic data adequately described
- Do the conclusions flow from the evidence?
- Full description of a repeatable process
- Discussion of limitations
- Complete references

References

- [1] Wasif Afzal, Richard Torkar, Robert Feldt, A systematic review of search-based testing for non-functional system properties, Information and Software Technology, Volume 51, Issue 6, June 2009, Pages 957-976
- [2] Sarah Beecham, Nathan Baddoo, Tracy Hall, Hugh Robinson, Helen Sharp, (2008):

Information

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Plagieringskontroll: Ja

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Anonym: Nej

Använd grupper: Elevdefinierade grupper

Deltagare svarade: 0 av 43

Motivation in Software Engineering: A systematic literature review, Information and Software Technology, Volume 50, Issues 9–10, August 2008, Pages 860-878


[3] Finn Olav Bjørnson, Torgeir Dingsøy, (2008): Knowledge management in software engineering: A systematic review of studied concepts, findings and research methods used, Information and Software Technology, Volume 50, Issue 11, October 2008, Pages 1055-1068


[4] B. A. Kitchenham, "Guidelines for performing Systematic Literature Reviews in Software Engineering," Version 2.3, EBSE Technical Report, EBSE-2007-01, Software Engineering Group, School of Computer Science and Mathematics, Keele University, Keele, Staffs, ST5 5BG, UK and Department of Computer Science, University of Durham, UK, 2007.

 [Template - SLR.pdf](#)

Svar

Tidsgräns den 8 februari 2015 23:59

 Ta bort

 Bedöm flera

 Hämta svar

Visa

Alla

Filtrera efter: Grupp ▼

Namn	Födelsedatum	Inlämnad ▲	Granskat	Nivå	Bedömning	Status för plagieringskontroll
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USMAN, SYED	830723T699	Inte inlämnad	Not submitted
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