

# KSU / CCIS / CS DEPARTMENT

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## CSC-541, FALL 2010 PROJECT

### 1. SWE research topics

1.1 Read the SWE research topics adopted by the *2010 International Conference on Software Engineering Research and Practice (SERP'10)*:

<http://www.world-academy-of-science.org/worldcomp10/ws/conferences/serp10>

and those by the *International Journal of Software Engineering and Its Applications*:

<http://www.sersc.org/journals/IJSEIA/>

1.2 Compare the research topics of the two resources. Explain why some topics (chose 3 research topics) belong to one and not to the other list of topics (one page long).

1.3 Send your document to Dr. Zohair and Dr. Salah. Due date: 22 Nov 2010.

The email subject\_must be like this: CSC541-Project-P1-A-Dwais-M-Utaibi

### 2. Your favorite topic

2.1 Choose one research topic. Write a small description or definition of it in one page. The description shall also list some of the methods, formalisms, techniques, and tools used in that research area. It has also to explain why you like that topic.

2.2 Provide the URL of one researcher or research team and the list of the more recent publications they (he) produced on that topic (one page long).

2.3 Send your documents (2.1 and 2.2) to Dr. Zohair and Dr. Salah. Due date: 27 Nov 2010.

The email subject\_must be like this: CSC541-Project-P2-A-Dwais-M-Utaibi

### 3. Research analysis

3.1 Choose two papers from the pool (details below). Check if they have not been chosen by other students on the following shared Google doc:

<https://docs.google.com/document/edit?id=1VuxmMyiEV8EzOpV4fB0-q6NevPYLUI6kRxksSCBEXgw&hl=en&authkey=CJaQk7oJ>

Update the Google doc (add your Id, topic, and paper titles).

3.2 Analyze and compare the two papers:

- a. Research plan and research questions
- b. Method, technique, formalism, and/or tool
- c. Research results
- d. Research validation

3.3 Write a scientific paper that contains 3.2.a – 3.2.d. The paper must contain no more than three pages, cover the topics 3.1.a to 3.1.d, and obey the scientific paper writing format (title, affiliation, abstract, introduction, some sections, conclusion, and references.) Send your document to to Dr. Zohair and Dr. Salah. Due date: 25 Dec 2010.

The email subject must be like this: CSC541-Project-P3-A-Dwais-M-Utaibi

## 4. Presentation

Present your work in 7 PPT slides:

- Define your topic (2.1) (1 slide)
- Introduce your two papers. Who are their authors? Where published and when? (1 slide)
- Comparison (4 slides 3.a – 3.d)
- Conclusion: assess 3.a – 3.d of each paper (1 slide)
- Send your PPT to Dr. Zohair and Dr. Salah. Due date: January 1, 2011. The email subject must be like this: CSC541-Project-P4-A-Dwais-M-Utaibi
- Presentations will be held during the week of January 8, 2011.

### Research paper pool:

- Zohair's webpage
- Arxiv: <http://arxiv.org/list/cs.SE/recent>
- Citeseer(X): <http://citeseerx.ist.psu.edu/>
- Online SWE journals. Google: online journal software engineering. Examples:  
<http://scialert.net/jindex.php?issn=1819-4311>  
<http://www.sersc.org/journals/IJSEIA/>
- Free samples of SWE journals