

CMPT 561 – Web Development

Fall 2015

Review paper, presentation and discussion leading

The review paper and presentation must be submitted to GitHub 1 day before the presentation

(Presentations will be organized during the last week of the course)

Each group of 2 student will select a specific topic, do some research based on recent papers, present it in class and lead the discussion. This assignment worth 10% of your grade.

You need to prepare a literature review paper to survey state-of-the-art results presented in major Web engineering conferences and journals. Then you will present and discuss your findings in class using effective presentation techniques. Each presentation will be given 25 minutes including questions and answers. The paper and presentation must be the student's original work. The written paper should be at least 8 pages (typewritten, 12 point Times Roman font). The key objective of this assignment is that you gain experience researching an advanced topic by gathering **multiple authoritative** academic sources and integrating your findings **into a well-structured paper and presentation** with the highest possible academic standards. In addition to learning about advanced topics in Web engineering, this assignment will also give you the opportunity to practice important research skills:

- You will gain experience reading and critically evaluating research papers.
- You will practice communicating complex technical material, both orally and in writing.

Submitted review papers and presentations will be made available to all students. This will enable everyone to learn from the efforts of all the other students.

1. Possible Topics

Paper and presentation topics must be specific enough. Students are encouraged to focus on topics that complement the material covered in the course, but you need to go significantly deeper.

Each group is required to select **at least 4 academic papers** (or you can choose 2 large papers > 20 pages) relevant to their topic, summarize and analyze them and present them to the class. Topics for presentation can be chosen from any recent (within the last five years) Web engineering publications from conferences such as:

- International Conference on Web Engineering
- World Wide Web Conference
- IEEE Internet Computing

Suggested topics:

- Best practices for designing, deploying & debugging Web applications
- Functional Reactive Programming
- Principles of Web design
- Testing of Web applications
- Web application architectures and design patterns

2. Guidelines for structuring your review paper

This section gives further guidance on how you could structure your literature review paper:

- Abstract
- Introduction: describe the research problem being addressed by the research papers you have reviewed. Discuss the importance of the problem. What are the challenges posed by the problem?

- Background: describe all key related concepts, and define any terms, especially technical terms and technical background, that are necessary to understand the problem.
- Research method (approaches, formalism, experiments, tools used).
- Solution: How is it solved? Architecture, concepts, algorithms and applications. Illustrate key technical points (Examples are a great way to do this.)
- Findings / contributions and/or new insights of the papers.
- Evaluation: strengths and weaknesses.
- Discussions: your own views and thoughts (e.g., is the paper(s) technically sound and why? Explain how the concepts in the reviewed papers advance the state of the art.)
- Future Work (remaining or new questions/problems to be solved)
- Conclusions
- Bibliography

Overall, your review paper should give a good idea of the content of the reviewed papers and the advantages and disadvantages to someone who has not read them.

3. Other guidelines

Grading schema:

Beside the above guidelines, this is what I will focus on during grading:

- Depth of literature review and adequate level of detail
- Emphasis Web engineering related issues
- Paper and presentation organization, i.e., logical order and transitions
- Clear, concise and accurate writing
- Conclusion justified and logically sound
- Well Prepared presentation and high level of confidence during the presentation delivery
- Quality of PowerPoint slides
- **Presenting NOT reading** – student just reading their presentation will have lower grade
- Time management during the presentation
- Adequately answering the questions during/after the presentation

Here are more general considerations:

- *The more in-depth and specific the better.*
- Avoid vague generalities.
- Referring to concepts or points made in our course content is a plus.
- Do not plagiarize. Quote and cite sources where necessary.

What should you submit?

You should submit to GitHub:

- PDF copy of the 4 reviewed papers
- Your review paper as a Word document
- Your PowerPoint presentation

On the day of the presentation, you should also submit a hardcopy of your review paper and a hardcopy of your presentation.

How to locate academic papers?

- QU Library Online Databases <http://library.qu.edu.qa/>
- Google Scholar <http://scholar.google.com/> - it works best if you use within QU campus because you can go straight to the full text via QU library.
- Email me if need any further guidance or help.

Useful links

- [Tips for Writing Technical Papers](#), by Prof. Jennifer Widom
- [Tips for a Good Conference Talk](#), by Prof. Jennifer Widom

Evaluation Criteria

Evaluation criteria	%
Depth of literature review and adequate level of detail: the more in-depth and specific the better. Emphasis Web engineering related issues	30
Paper organization, i.e., logical order and transitions	10
Clear, concise and accurate reporting of findings / contributions and/or new insights of the papers.	10
Paper Evaluation: strengths and weaknesses.	10
Discussions: your own views and thoughts (e.g., is the paper(s) technically sound and why? Explain how the concepts in the reviewed papers advance the state of the art.)	10
Conclusion justified and logically sound	10
Presentation Organization: - Presentation well-organized: information presented in logical and interesting sequence that the audience can easily follow - Good quality and neat visual aids	6
Presentation Content: - Presentation provides pertinent, concise and clearly explained information - Material is covered with adequate depth	6
Presentation Delivery: - Engaging talk with high level of confidence and enthusiasm - Speaks clearly and uses appropriate language - Meets time limit (25 minutes) - Adequately answering the questions	8
Total	100