

CPSC 589

Seminar in Computer Science

Survey, Presentation, and Research Proposal

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Outlines

1. Introduction
2. Research Resources and References
3. Research Topics in Computer Science
4. Survey
5. Presentation
6. Research Proposal

Now we are here!

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Survey, Presentation, and Research Proposal

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Preliminary Survey Presentation

- Preliminary survey for your research projects
- Decide research area and topics
- Find "good" references (3+ from ACM/IEEE/.. conferences/journals)
- Preliminary survey presentation
 - Brief summary of references
 - Comparison (past, current and future work)
 - 1-2 pages OHP or PPT
 - 10 minute presentation (PowerPoint or OHP)
 - 5 minutes talk, 5 minutes Q&A (solicit at least 3 Q&A)
 - Reference list (keep the "ACM Computing Surveys" journal format)

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Detailed Survey Presentation

- Present "detailed survey summary" from the references (5+)
- Present your research area formally
 - 1 hour presentation (PowerPoint or OHP)
 - 35-40 minutes talk, 5-10 minutes Q&A
 - 15-25 pages of PPT slides (talk 2 - 3 minutes per slide)
 - Handout copies for students (required)
- Compare past, current, and future works
- Suggest a potential research topic drawn from survey
- Give your research title specifically (required)
 - Explain how you have drawn your research topic and title.
 - This research title should be shown in your survey report too.
 - This research title should be used in your research proposal.

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Survey Report

- Summary report from detailed survey
 - 22-30 page's survey report, 10-12 points, double space, single column, cover page (name, id#, research topic, ...), outlines, use standard fonts (e.g., use Times Roman fonts for main text and Arial for titles), references, ...
- Compare past, current, and future works
- Problems and solutions described in references you surveyed
- Suggest a potential research topic and your research title (that will be used in your research proposal)

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Research Proposal

- Confirm your research area and topic (and the research title of your research proposal) from the detailed survey
- Propose your research for CPSC 597 (projects) or CPSC 598 (thesis)
- Strictly follow the departmental guidelines and forms
- Submit a hardcopy by the due date

Grading Policy

- Follow the department guidelines and formats.
- Use "ACM Computing Surveys" journal format for reference format.
- Computer typed/printed, 12 points, standard fonts (e.g., Times Roman OR Arial), double space, single column.
- Carefully read "Guidelines" of this class.
- Proof read - avoid illegible type errors and spelling errors.

Grading Policy

- All research should be based on the topic differently designated in each semester (e.g., game creation).
 - You may choose any research area (programming languages, databases, ...) in computer science, however, all research should be based on the topic that you agreed anyhow.
 - Your major references (5 references) should be approved by the instructor before you start.
 - Major reference – 5 references you summarize in the Survey Report
 - Minor references – you read them for references

Grading Policy

- Example (How to find a research title)
 - Area in CS + Topic of the semester
 - Programming languages + game creation
 - (You start from these area and topic.)
 - Programming languages for game programming
 - Programming languages for online game programming on the Internet using mobile objects
 - Mobile internet game programming languages
 - Developing a Mobile Programming Language to support Internet Game Programming
 - (You end up with a research title that will be used in your research proposal.)

Grading Policy

- More detail
 - See the "CPSC 589 Guidelines for Survey Presentations, Survey Reports and Research Proposals" at the class webpage.

References

- Graduate Handbook: A Guide to the Master's Degree Program, CSUF Computer Science Dept.
- Master's Project and Thesis Guidelines, CSUF Computer Science Dept.
- CSUF Computer Science, Forms & Documents: <http://cs.fullerton.edu>