CSE567M

Project Guidelines

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These slides are available on-line at:
http://www.cse.wustl.edu/~jain/cse567-08/
Overview

- Project Requirements, End-Goal
- Literature Search
- Preparation Process, Mind Maps
- Writing Style
- Organization
- List of Acronyms
- References
- HTML Style Guidelines
- Submission
Sample Project Topics

- A Survey of Network Traffic Models
- A Survey of Queueing Analysis Packages
- Recent advances in queueing analysis
- A Survey of Simulation Packages
- Recent advances in simulation
- A Survey of Processor Workloads
- A Survey of modeling Tools: R, MATLAB, SPSS, Mathematica
- A survey of Network Performance/traffic monitoring Tools
- A Survey of Operating Systems/Process Monitoring Tools
- Operating Systems (Unix/Linux/Windows) Performance Tools

Note: Do not repeat last year’s projects
Sample Project Topics (Cont)

- Time series analysis modeling techniques
- Performance Analysis of xxx (Commonly used performance metrics, Workloads, Sample/Actual Analysis, Examples of Use/Misuse of Analysis techniques and plots)
  - Performance of Communication Middleware
  - Performance of Real time systems
  - Performance of Web caching
  - ...
- Case Study: Performance Analysis of xxx
Project Announcements

- If you are doing a case study or a survey of performance analysis of xxxx, make sure your report emphasizes the performance concepts and techniques learnt in this course.

- In surveys, if you come across misuse of statistics or mistakes, please include it in the report.
Project Schedule

Mon 10/6/08  Topic Selection
Mon 10/20/08 References Due
Mon 10/27/08 Outline Due
Mon 11/10/08 First Draft Due -> Peer reviewed
Mon 11/17/08 Reviews Returned
Mon 11/24/08 Final Report Due
Project Requirements

- Comprehensive Survey:
  Technical Papers, Industry Standards, Products
- Will be published on my website,
  Better ones may be submitted to magazines or journals
- No copyright violations:
  ⇒ You need to re-draw all figures
  ⇒ You need to summarize all ideas in your *own* words
  ⇒ Cannot copy any part of text or figure unmodified
  ⇒ Short quotes ok
  ⇒ Any unmodified figures need permissions
  Any infringement will result in forfeiture of grades even after graduation.
- See papers in previous offering of this course, e.g.,
  http://www.cse.wustl.edu/~jain/cse567-06/ftp/mac_perf/index.html
End-Goal

- Paper that can be published as a survey paper in any magazine, journal, conference
Preparation Process

- Read abstract and stop if irrelevant
- Underline the key points in the paper
- Write the key summary on the first page of the paper
- Prepare a text document with the key ideas
- Keep adding to this text document document from different papers with [refs, page, paragraph]
- Import the text document in Powerpoint
- Add figures and clean up the outline
- Like getting ready to make a presentation to the class
Mind Maps
Mind Maps (cont)
Literature Search

- Finding references: Use Google advanced search options
  - Location 802.11 +filetype:pdf +site:.com
- Conduct searches in two phases. In the first phase, use the title words of your project. After reading these, conduct another more comprehensive search.
- Remove articles that are not useful
- No limit to the number of references
- Follow the references in references
Writing Style

- Readers want to get to the information fast. Keep the nonessential stuff at the end.
- Check thoroughly for grammar and spelling.
- Avoid excessive use of abbreviations.
- Be consistent in case and usage: MOBILE, Mobile, mobile
Diamond Writing Style

- Each paper should start with an introduction and end with a summary.
- Each section should start with a short introduction and end with a summary with a lead in to the next section. The same applies to subsections.
- All subsections should be of comparable length.
- Add an appendix with all abbreviations
- Add a list or discussion of related products
Organization

- Every paper should have an introduction and a summary.
- Divide paper into sections.
- Every section should have a lead-in paragraph.
- Header level should correspond to the level in table of contents.
- Keep all references relative.
  Absolute: http://www.cse.wustl.edu/~jain/papers/x.ps
  Relative: papers/x.ps
- Try to keep the whole paper in one file “index.html” with figures in fign.gif in the same directory. No Subdirectories.
- All files names should have eight characters or less for name and 3 characters or less for extension (MS/DOS compatible). The only exception is index.html
Organization (Cont)

- Title
- Author
- Abstract
- See Also:, References to Other Reports
- Table of Contents
- Introduction
- Other Sections
- Summary
- References
- List of Acronyms
- Date Last Modified:
- Note: This paper is available on-line at http://www.cse.wustl.edu/~jain/cse567-06/ftp/%directory%/index.html
Organization (Cont)

- File name: Index.html, fig1.gif, fig2.gif, ..., fig.ppt
- Keep PowerPoint figure source files in the same directory although these may not be referenced in the paper
- Table of Contents
  - Sections and subsections
  - Numbering n.n
  - 3-7 subsections per section
  - 3-7 sections per paper
  - No page numbers
Title/Keywords/Abstract

- Title
  - Based on Table of contents
  - Searchable
- Key Search words
  - Based on Table of contents
  - Acronyms and full names
- Abstract
  - Based on Table of Contents
  - 3-7 sentences
- Description:
  - One line based on ToC and Abstract
Organization (Cont)

- See Also:
  - Search our web site for the topic.
  - Look at other current reports on related topics
- Introduction
  - Explain what the topic is about.
Other Sections

- Each section less than 3 pages.
- Each section needs at least one introductory paragraph. Do not start with a subsection.
- Each subsection at least 1 paragraph.
- Back to Table of Contents at the end of each section.
- All sections/subsections should be numbered n. n.n
- If you borrowed several sentences from some source, italicize the text and indicate the source.
Summary

- One or more sentences about the each issue.
- Based on Table of Contents
- Key lessons
References

- Style of References
  - Author(s), “Title,” Source, date, pages, url
  - The URL should show up as well as have a link.
  - All references should be annotated and have links.

- Order in the most important first and indicate so
- In the text point to the end
- In the end point to actual URL. Provide URL.
- Find URL for published papers
- Remove references that are useless.
- [Authoryy] notation.
- Exception: Standards, company documents, RFCs.
List of Acronyms

- Search the text
- Define on first use
- Avoid multiple uses if used less than 5 times.
- Exception: Commonly used acronyms, e.g., CPU, I/O, ...

Figures/Tables

- All figures should be numbered 1, 2, ...
- All tables should be numbered 1, 2, ...
- All figures should have a title below the figure
- All tables should have a title above the table
- All figures/tables should be referenced in the text and explained.
- Should be placed close to their references.
- To prepare figures use blank slides in PowerPoint and save them as gif files. Use Microsoft image editor to crop the figures for correct white space around them.
HTML Style Guidelines

- See papers from previous classes on my website for details
- Use plain text editors with simple html
- No Java, flash, animation
- Learn to use special characters in text and reference URLs. See http://tntluoma.com/sidebars/codes/
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="content-type" content="text/html;charset=UTF-8">
<meta http-equiv="content-language" content="en">
<meta name="Author" content="author">
<meta http-equiv="content-type" content="text/html">
<meta name="robots" content="all">
<meta name="GENERATOR" content="generator">
<meta name="Keywords" content="keywords">
<meta name="Classification" content="classification">
<meta name="Description" content="description">
<title>Header</title>
</head>
</html>
<body>
<h1>Title</h1>
<B>Author</B>, Permanent-Email
<hr>
<h2>Abstract:</h2>
...
<hr>
See Also:
<hr>
<h2>
<a NAME="toc"></a>Table of Contents:</h2>
<ul>
<li><a href="#sec2">2. 10-Gigabit Ethernet Overview</a></li>
<ul>
<li><a href="#sec2.1">2.1 Benefits of 10-Gigabit Ethernet</a></li>
...
</ul>
</ul>
<hr WIDTH="100%">

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Body (cont)

<h2><a NAME="intro"></a>Introduction</h2>
...
<p><a href="#Grow99">Grow99</a></p>
...
<p><a href="#toc">Back to Table of Contents</a></p>
HTML Guidelines (Cont)

- Ensure there is a link attached to
  - `author@cse.wustl.edu`
  - Every line in Table of contents
  - Back from the end of every section

- Place a horizontal rule at the end of each section
  `<BR><HR><BR>`

- Spread references throughout the document. Use mnemonic references with link attached to them, e.g., [Cisco99]
Editorial

- Check all acronyms. All acronyms should be defined on first use.
- Check capitalization. No unnecessary capitalization. Headers are usually capitalized.
- Spell Check entire document.
- k in kilo is lower case. kbps not Kbps.
- Leave a space between numbers and units, e.g., 15 km not 15km.
- Remember to submit copies of unusual references (not available in the library or the Internet) with the final paper.
Other

- Look for special characters
- American English: Signaling, Synchronization
- Check for continuity
- Break long paragraphs.
- Single space between paragraphs.
- The paper should be 10-15 pages long
- If you copy any figures, give reference and credit
- Use the template supplied
Submission

- Spell check
- Grammar Check
- Validate your page on:
  - W3C Markup Validation Service, [http://validator.w3.org/](http://validator.w3.org/)
- Check URLs
Submission (Cont)

- No Winword generated HTML
- You can use winword for spell checking the text
- Use plain text editor to insert HTML tags.
- Submit four printed copies of the webpage.
- In the draft:
  - For the review purposes, the author's name should be removed.
  - Add keyword after abstract
Draft Submission

- Submit 4 hardcopies
- Delete Author name, email etc
- Use Author ID = Last 3 digits of your student ID
Common Mistakes

- No Figures
- Figure/equations fonts too large
- Figures with no title or number or reference
- Figures/tables overflowing the margins
- References with no annotation
- References not cited
- Key pieces of information w/o references
- Tables w/o references
- Papers too short
Common Mistakes

- No comparison of different alternatives
- No Acronyms
- List of summary
- Incorrect reference style
Mistakes

- No report
- Used doc generated HTML file
  (Did not validate HTML.
  Incorrect title.)
- No index.htm
- Tar/tgz files
- No keywords