CSE574

Project Guidelines

Raj Jain
Washington University in Saint Louis
Saint Louis, MO 63130
Jain@cse.wustl.edu

These slides are available on-line at:
http://www.cse.wustl.edu/~jain/cse574-08/
Overview

- Project Requirements, End-Goal
- Writing Style
- Organization
- List of Acronyms
- References
- HTML Style Guidelines
- Submission
## Project Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon 2/20/08</td>
<td>Topic Selection</td>
</tr>
<tr>
<td>Mon 3/03/08</td>
<td>References Due</td>
</tr>
<tr>
<td>Mon 3/17/08</td>
<td>Outline Due</td>
</tr>
<tr>
<td>Mon 4/07/08</td>
<td>First Draft Due</td>
</tr>
<tr>
<td>Mon 4/14/08</td>
<td>Reviews Due</td>
</tr>
<tr>
<td>Mon 4/21/08</td>
<td>Final Report Due</td>
</tr>
</tbody>
</table>
Project Topics

- Wireless Alternatives for Rural America
- Aerospace Applications of Recent Wireless Standards
- OSPF Extensions for Wireless
- Body area Networks
- IMT Advanced (4G)
- 700 MHz
- Medical Applications of UWB
- LTE and UMB
- Energy efficient protocols
- Medical Applications of WiMAX/WiFi/Bluetooth
End-Goal

- Paper that can be published as a survey paper in any magazine, journal, conference
- Make sure your report produces a good summary of key current issues and recent developments.
- Comprehensive Survey: Technical Papers, Industry Standards, Patents, Products
- Topics that are 5+ years old should be mentioned only briefly with references to books for further information.
Project Requirements

- 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 courses, e.g.,
  http://www.cse.wustl.edu/~jain/cse574-06/index.html
  http://www.cse.wustl.edu/~jain/cse567-06/index.html
  http://www.cse.wustl.edu/~jain/cse571-07/index.html
Literature Search

- Finding references: Use Google advanced search options
  - Location 802.11 +filetype:pdf +site:.com
  - See advanced search in Google: http://www.google.com/advanced_search?hl=en

- 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 internal 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
- Keywords
- 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/cse571-07/ftp/%directory%/index.html
Organizational (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
- All local links should be lower case. All filenames in lower case.
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 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, ...

exception
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="pics-label"
<meta http-equiv="content-type"
<meta name="Author"
<meta http-equiv="content-language"
<meta name="robots"
<meta name="GENERATOR"
<meta name="Keywords"
<meta name="Classification"
<meta name="Description"
<title>
</title>
</head>
<body>
<h1>Title</h1>
<B>Author</B>, Permanent-Email (Under guidance of Prof. Raj Jain)
<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>
</body>
<h2>Introduction</h2>

...

<p>[<a href="#Grow99">Grow99</a>]</p>

...

<p><a href="#toc">Back to Table of Contents</a></p>

<br>
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/
- Use Xenu to check missing local links, and external URLs
Submission (Cont)

- No MS Word generated HTML
- You can use MS Word 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
- For two-student projects, write both IDs.
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 (Cont)

- No comparison of different alternatives
- No Acronyms
- List of summary
- Incorrect reference style
- Used doc generated HTML file
  (Did not validate HTML. Incorrect title.)
  – Validation required for final submission
    (not for review copies)
- No index.htm
- Tar/tgz files (please submit only one zip file with all files)
- No keywords
Summary

- Report suitable for web publication
- Strictly follow format, style guidelines
- No copyright violations
- Technical quality