

# CSE567M

# Project Guidelines

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These slides are available on-line at:

<http://www.cse.wustl.edu/~jain/cse567-11/>



- 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

Wed 3/02	Topic Selection
Mon 3/07	References Due
Mon 3/21	Outline Due
Mon 4/11	First Draft Due -> Peer reviewed
Mon 4/18	Reviews Returned
Mon 4/25	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 permissionsAny 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/index.html>
- ❑ <http://www.cse.wustl.edu/~jain/cse567-08/index.html>

# End-Goal

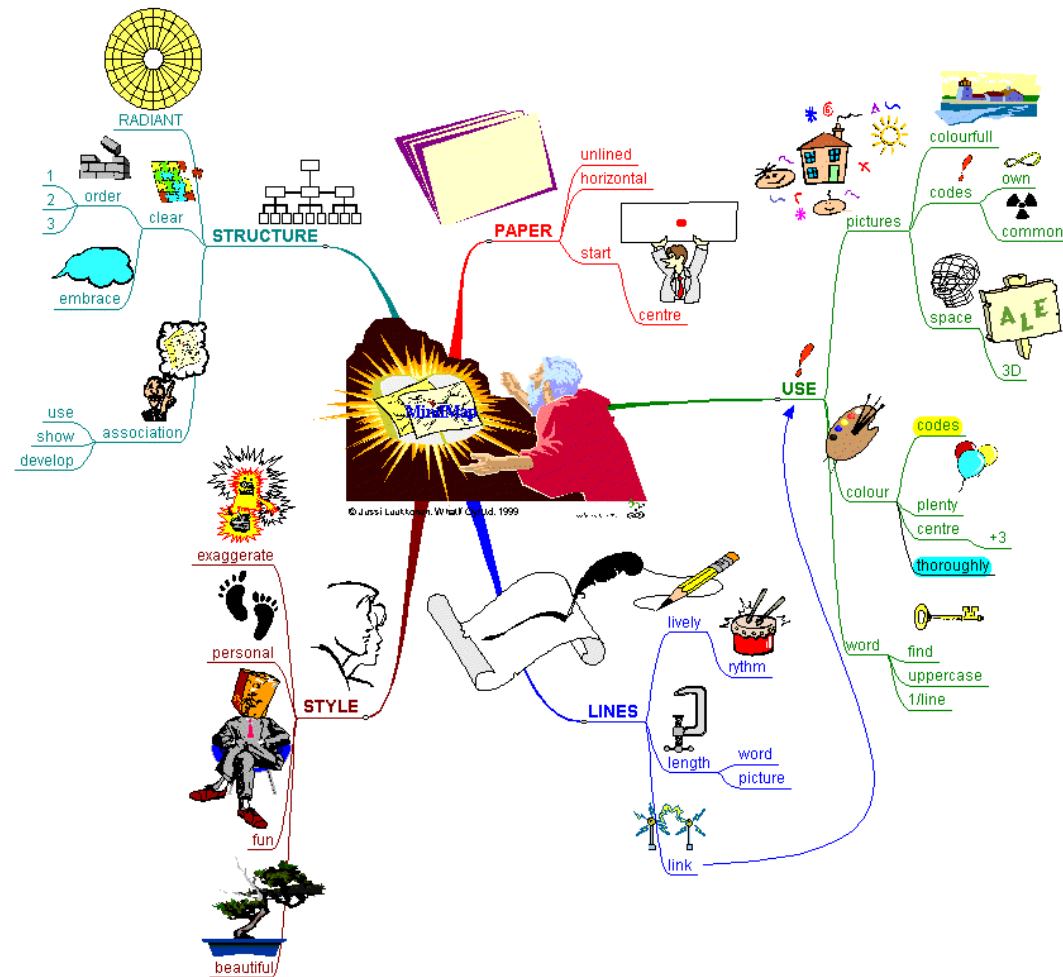
- Paper that can be published as a survey paper in any magazine, journal, conference



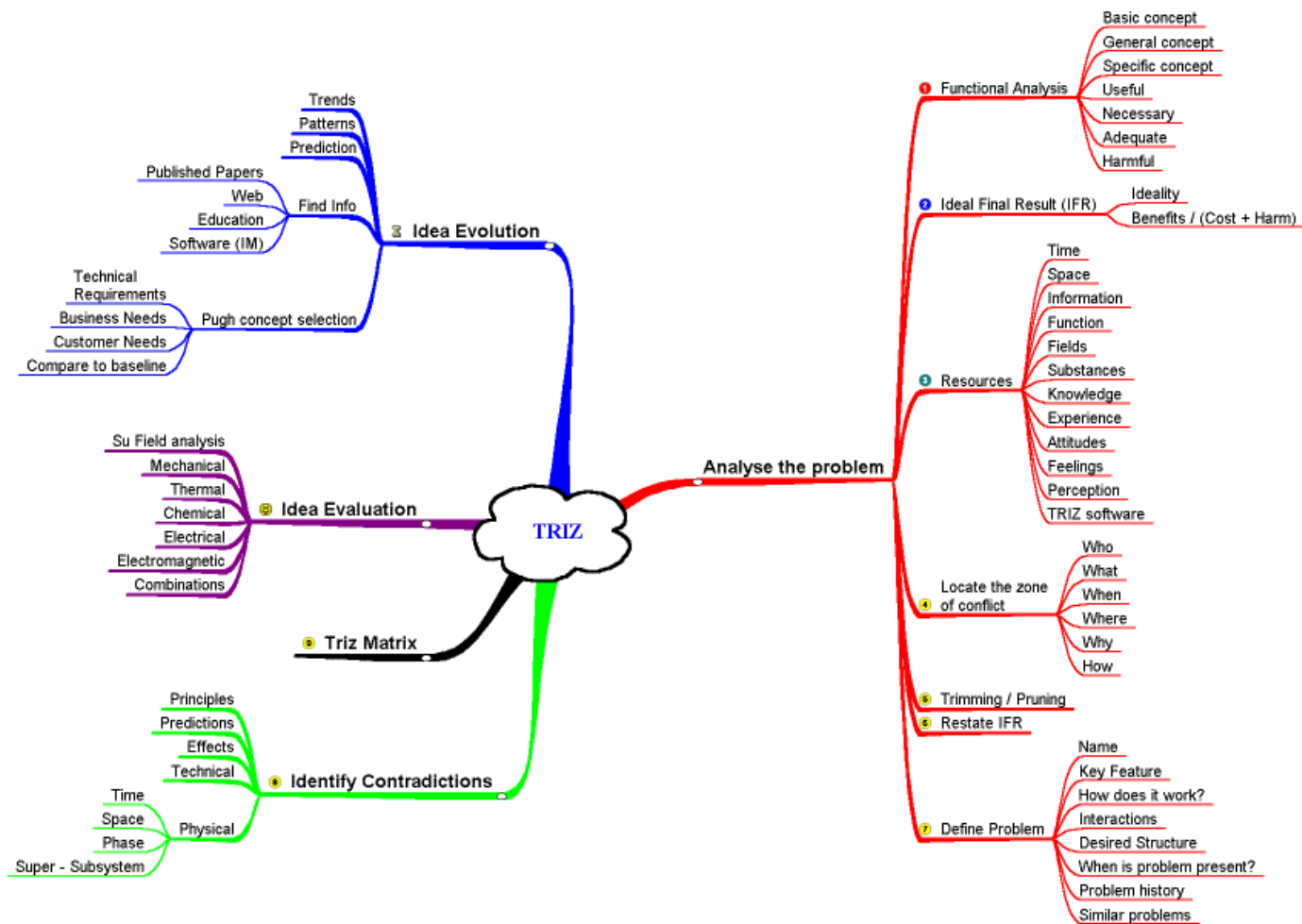
# Preparation Process

- ❑ 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 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)



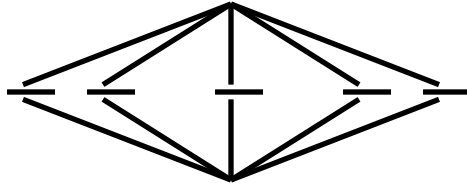
# Literature Search

- ❑ 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 in to 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/>

# Header

```
<!DOCTYPE  
<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>  
</head>
```

# Body

```
<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%">
```

## Body (cont)

```
<h2>
```

```
<a NAME="intro"></a>Introduction</h2>
```

```
...
```

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

```
<p>
```

```
...
```

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

```
<br>
```

## HTML Guidelines (Cont)

- ❑ Ensure there is a link attached to
  - [author@cse.wustl.edu](mailto: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/>
  - HTML code check by Net Mechanic,  
<http://www.netmechanic.com/toolbox/html-code.htm>
  - CSE HTML Validator ,  
<http://www.htmlvalidator.com/>
- ❑ 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 (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

## Project Homework 2

- ❑ Prepare a short webpage (written manually) using most of the tags indicated in this handout
- ❑ Include one image/photo in the page
- ❑ validate the page using [validator.w3.org](http://validator.w3.org)
- ❑ Submit the html source file printout, web page printout, and the URL