

COSC 370 Computer Networks

This is group project. Each group contains 2-3 people. In this project, you will choose one computer network topic (sample topics are listed as follows). Each group is required to do a project presentation for chosen topic, implement at least one algorithm or protocol related to your topics, and write a project report to summarize your project study results.

1. Network security:
2. Internet of Things:
3. Wireless network:
4. Sensor networks:
5. Cyber Networks:
6. Mobile Networks:
7. Multimedia Networks:
8. Cloud computing:
9. Network management:
10. Virtual private networks:
11. Networking trends:
12. Network technology used on shellfish industry:
13. Other computer network topics (approved by instructor):

Please select the topic of your interest. Once a topic is assigned to a group, no change will be allowed. Make sure that your report cites the relevant papers. Your presentation, implementation, and final report must base on at least one technical article. Before you work on your project report and presentation slides, you need to study the materials you are going to talk. Some topics may be already talked in class. You may overview them briefly. Your presentation must talk about the listed topics which are not covered in class in certain depth. You may also want to use Internet (google.com) to search related topics for help you understanding the contents and polish your presentation. **DO NOT** copy-and-paste directly from the cited paper. Reports that do copy-and-paste sentences/paragraphs from existing literature will receive **NO CREDIT**.

A list of web sites to find the latest related papers and books:

- [SU Library](#)
- [IEEE Xplore](#)
- [ACM portal](#)
- [Citeseer](#)
- [DBLP Bibliographies](#)
- [scholar.google.com](#)

General advice on reading and writing papers:

- [How to read technical papers](#)
- [How to write technical papers](#)

Please keep in mind that you need to attend each presentation and pay attention to what your classmates talk about. You are expected to ask questions during the presentation. You also need to write an evaluation/report for other people's presentations. It includes your evaluation for the other people slides, presentation skills, your suggestions for their presentation, and what you learned from the presentation, which means that you need to take notes when other people are doing their presentation. The instructor will make the presentation slides available to everyone. The final exam may cover the contents of these presentations.

Evaluation Criteria:

- Presentation (about 20 minutes presentation, 5 minutes Q & A): 50%
 - Organization of talk: 10%
 - Design of slides: 10%
 - Clarity of speaking: 10%
 - Demo of algorithm/protocol: 10%
 - Response to questions: 5%
 - Evaluation of other group presentation 5%
- Project report (5-10 pages): 100%
 - Writing style: 10%
 - report contents: 20%
 - Documentation of algorithm/protocol: 20%
 - Implementation of algorithm/protocol: 40%
 - Description of group activities and evaluation of individual contribution to the group project 10%

Submission:

- **Project proposal** (topic, group member names, timeline, reference papers): **Feb 19**
- **Progress report** (what you have done, what you plan to do, preliminary results for your implementation, revised timeline if applicable): **March. 26**
- **Presentation slides (ppt) due:** **Your assigned presentation day** (hand in hardcopy slides and submit .ppt file though [MyClasses @ SU](#))

- **Project final report and evaluation other people's presentation** (hand in hardcopy and submit files including your source codes though [MyClasses @ SU](#)): **May 3**