CSC668 Topics in Computing

Project Information and Suggestions

Project information and suggestion

One to four people may collaborate on the projects if it is of sufficient scope, and the contributions of each person are clearly delineated. The project includes a presentation of approximately 20-30 minutes (depending on the scope of work, and the number of people in the team)

The term project will include few options

1. Hacking project. Hack into your project team member's device. (peer-to-peer) attack. Both/All parties need to be aware of this occurrence. See instructor for instructions if you need any, or come up with your own process.

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2. a research project related to a topic in the WLAN security area.

Some suggested topics are listed in the next slide, but you are by no means limited to these topics.

The project can be a literature survey, analysis, and/or simulation.

Ideally, the project should include some original research.
However deriving a known result from scratch, repeating a simulation experiment, or a literature survey of 2-3 papers is also one.

Some Suggested Project Areas:

- **Susceptibility of WLAN**
- **Methods to resolve security issues in WLAN**
- **Future of WLAN security.**
- **Economic issues for WLAN security**
- **Design your own WLAN device**

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Details and Deadlines

A one paragraph project proposal is due by week 2 (email or hard copy is fine).

The project proposal should include a fairly detailed description of what you plan to do.
Do not propose an overly ambitious project that cannot be completed by the end of the term.

The project is deadline is last seminar. However, if you manage to complete and present your work by week 3-6, there will be a credit of 15% added to the total project grade. If presented by week 7-8, 10% will be added, week 9 will add 5% to the total project score. Week 10 will only carry 20%.

Outline Sample

Project Abstract

Name: Joe Shmoe

Proposed Project:

To conduct a literature survey to determine the performance of TCP/IP and ATM over wireless networks. The study would also involve a comparison of the two sets of protocols based on how they perform in supporting the different sets of applications that are run on top of them (voice, video, data etc.). A study of how these various classes of applications are treated by these protocols simultaneously (QoS) will also be undertaken. Also, these schemes require the use of a MAC (Medium Access Layer), and the study would look at different MAC layer protocols (such as the IEEE 802.11 standard) that could be implemented in conjunction with TCP/IP or ATM. The study will consider communications via satellite and ground-based relay systems.

The literature survey will be based on information gathered upon reading technical papers from IEEE journal publications.