You are to select a topic from the list below and write a 10 page (single column) report on the topic. In researching the topic that you have selected, you should study the papers from the list below (and possibly others if needed). Your report should summarize the papers and explain how they relate to each other. About 1/2 of your report should be devoted to identifying an open problem in the area and attempting to formulate and solve the problem. I will discuss this aspect of the project in class in more detail.

**Project proposals (topic and paper selection) are due on September 30, 2008**

**Paper reports will be due December 4, 2008**

In addition, you will need to prepare a 20-minute oral presentation on the paper (using PowerPoint or similar). Presentations will be scheduled during the week that the paper reports are due; probably in the evenings.

**Topic List**

1. **TCP/IP**


2. **Wireless Networks – multiple access**


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1 If you wish to research a topic that is not on the list, that would be ok, but you should seek my approval for your plan.

3. Wireless Networks - scheduling


4. Wireless networks – asymptotic analysis


5. Wireless Networks – resource allocation


6. Wireless Networks – energy efficiency


7. Switching and routing in high-speed networks


8. Optical Networks – lightpath routing


9. Optical Networks – blocking probability


10. Network protection and restoration


11. Overlay networks - reliability


12. Queue Management

