

Name: _____

This week's readings

- [1] Vaduvur Bharghavan, Alan Demers, Scott Shenker, and Lixia Zhang. MACAW: A media access protocol for wireless LANs. In *Proceedings of the ACM SIGCOMM Conference on Communications Architectures, Protocols, and Applications*, pages 212–225. London, United Kingdom, August 1994. URL <http://portal.acm.org/citation.cfm?doid=190314.190334>.
- [2] Stefan Savage, Neal Cardwell, David Wetherall, and Thomas Anderson. TCP congestion control with a misbehaving receiver. *ACM Computer Communication Review*, 29(5):71–78, October 1999. URL <http://www.cse.ucsd.edu/~savage/papers/CCR99.pdf>.
- [3] Hari Balakrishnan, Venkata N. Padmanabhan, Srinivasan Seshan, and Randy H. Katz. A comparison of mechanisms for improving TCP performance over wireless links. *IEEE/ACM Transactions on Networking*, 5(6):756–769, 1997. URL <http://research.microsoft.com/~padmanab/papers/ton97.pdf>.
- [4] Pravin Bhagwat, Bhaskaran Raman, and Dheeraj Sanghi. Turning 802.11 inside-out. In *Proceedings of the ACM Workshop on Hot Topics in Networks (HotNets)*, pages 33–38. Cambridge, MA, November 2003. URL <http://doi.acm.org/10.1145/972374.972381>.
- [5] Daniel Aguayo, John Bicket, Sanjit Biswas, Glen Judd, and Robert Morris. Link-level measurements from an 802.11b mesh network. In *Proceedings of the ACM SIGCOMM Conference on Applications, Technologies, Architectures, and Protocols for Computer Communication*. Portland, OR, August 2004. URL <http://www.pdos.lcs.mit.edu/~rtm/papers/p442-aguayo.pdf>.
- [6] Ratul Mahajan, Maya Rodrig, David Wetherall, and John Zahorjan. Sustaining cooperation in multi-hop wireless networks. In *Networked Systems Design and Implementation (NSDI)*. May 2005. (to appear), URL <http://www.cs.washington.edu/research/networking/catch/bits/catch.pdf>.

1. No questions this week. (midterm to be handed out monday).

2. Read Daytona (Savage) and Own (Paxson) by wednesday.

3. Read and review one of inside out, roofnet, and catch for monday 4/3.

Vocabulary (some of this may be covered in class)

- p -persistent CSMA
- 1-persistent CSMA
- 802.11
- ad hoc networks
- ALOHA
- CDMA
- CSMA/CA
- CSMA/CD
- CTS
- DIFS
- direct-sequence spread spectrum
- exposed terminal (“exposed node”)
- FDMA
- frequency-hopping spread spectrum
- hidden terminal
- non-persistent CSMA
- personal area networks (“piconet”)
- RTS
- SIFS
- slotted ALOHA
- SNR
- TDMA
- WEP