

Major Area Examination Reading List

Kimaya Sanzgiri
Department of Computer Science
University of California, Santa Barbara
kimaya@cs.ucsb.edu

1 Reference Books

1. J. Kurose and K. Ross. *Computer Networking: A Top-Down Approach Featuring the Internet*. Addison Wesley, 2001.
2. C. Perkins, editor. *Ad hoc Networking*. Addison Wesley, 2000.

2 Internet Protocols

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8. L. Brakmo and L. Peterson. TCP Vegas: End to End Congestion Avoidance on a Global Internet. *IEEE Journal of Selected Areas in Communication*, October 1995.
9. S. Floyd and V. Jacobson. Random Early Detection Gateways for Congestion Avoidance. *IEEE/ACM Transactions on Networking*, 1(4):397–413, August 1993.

3 Internet QoS Solutions

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2. B. Carpenter and D. Kandlur. Diversifying Internet Delivery. *IEEE Spectrum*, 1999.
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9. J. Padhye, J. Kurose, D. Towsley, and R. Koodli. A Model Based TCP-Friendly Rate Control Protocol. In *NOOSDAV*, 1999.
10. X. Li, M. Ammar, and S. Paul. Video Multicast over the Internet. *IEEE Network Magazine*, April 1999.
11. J. Kurose and K. Ross. *Computer Networking: A Top-Down Approach Featuring the Internet*, chapter 6: Multimedia Networking. Addison Wesley, 2001.

4 Wireless Networks

1. G. Forman and J. Zahorjan. The Challenges of Mobile Computing. *IEEE Computer*, 27(6), April 1994.
2. R. Katz. Adaptation and Mobility in Wireless Information Systems. *IEEE Personal Communications*, 1(1), 1994.
3. IEEE Computer Society. IEEE 802.11 Standard, IEEE Standard for Information Technology, ISO/IEC8802-11:1999(E), November 1999.
4. S. Xu and T. Saadawi. Does the IEEE 802.11 MAC Protocol work well in Multihop Wireless Ad hoc Networks? *IEEE Communications Magazine*, pages 130–137, June 2001.
5. C. Perkins and P. Bhagwat. Highly Dynamic Destination-Sequenced Distance Vector Routing (DSDV) for Mobile Computers. In *ACM SIGCOMM*, 1994.
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5 QoS in Wireless Networks

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13. Q. Xue and A. Ganz. Ad hoc QoS On-demand Routing (AQOR) in Mobile Ad hoc Networks. *Journal of Parallel and Distributed Computing*, 63:154–165, 2003.
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17. S. Chen and K. Nahrstedt. Distributed Quality-of-Service Routing in Ad-hoc Networks. *IEEE Journal of Selected Areas in Communication*, 17(8), August 1999.
18. C. Perkins and E. Royer. Quality of Service for Ad-hoc On-demand Distance Vector Routing. *IETF Internet Draft, draft-perkins-manet-aodvqos-02.txt*, October 2003. (Work in progress).
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