ECE/CS 598NV
Special Topics (Distributed Algorithms for Wired and Wireless Networks)
Fall 2009

Prerequisite: ECE 428 Distributed Systems or ECE 438 Communication Networks

Instructor: Nitin H. Vaidya, Phone: 265-5414 E-mail: nhv@illinois.edu
Office Hours: Wednesday 2:00 - 3:30 or by appointment, room 458 Coordinated Science Lab.
Class: Tuesday and Thursday 11:00 a.m. - 12:20 p.m., Siebel Center room 1304

Course web page: http://users.crhc.illinois.edu/nhv/09fall.598/
Please visit the course web page regularly to see course-related announcements, as well as homeworks, project description, and other relevant information.

Course material:

- Required textbook: *Distributed Computing: Fundamentals, Simulations, and Advanced Topics, Second Edition*, Hagit Attiya and Jennifer Welch, John Wiley & Sons, 2004.
- In addition to the required textbook, the course will also use papers from relevant publications.

Course Content: Distributed algorithms for wired networks, including algorithms for consensus, clock synchronization, mutual exclusion, broadcast; proofs of correctness of distributed algorithms; fault-tolerant distributed algorithms; distributed algorithms for wireless networks.

Grading policy

- Homeworks: 10%
  A 48-hour extension beyond the due time for each homework is granted to all students. Any further extension must be approved by the instructor. Submissions after the extension period will not receive credit.
- Two mid-term tests: 40% total
- Final exam: 30%
- Project and paper presentation: 20%

Academic integrity: The policy for academic integrity is based the UIUC Student Code available from http://www.admin.illinois.edu/policy/code/ which states that "It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions".

You may discuss interpretation of the assignments with each other, but you are expected to construct and submit your own solutions to any assignment that you turn in for credit. If students are found to have collaborated excessively or to have blatantly cheated (e.g., by copying or sharing answers during an examination), all involved will receive a grade of 0 for the first infraction; further infractions may result in failure in the course and possibly other penalties.