

CMPS 4750/6750

Computer Networks

Zizhan Zheng

Spring 2018

Outline

- Administrative trivia's
- What Is the Internet?
- Access Networks

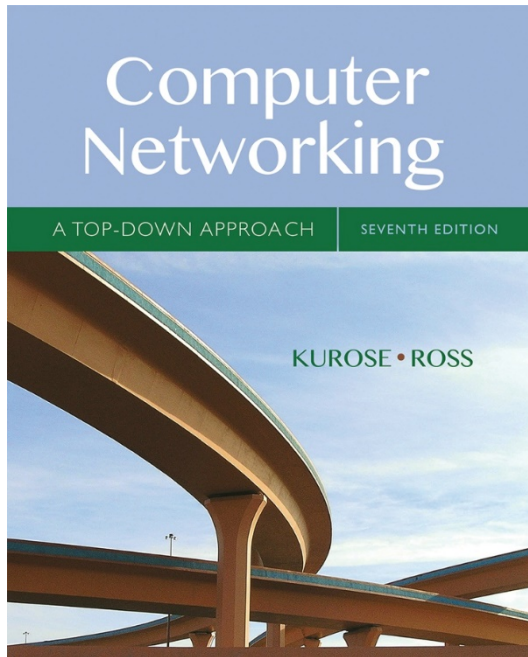
Personal

- Instructor: Prof. Zizhan Zheng
 - Office: Stanley Thomas 307B
 - Email: zzheng3@tulane.edu
 - Research Interests: Networks, Cybersecurity, Machine learning
 - Office hours: [Wed & Thu 12-1pm](#) and by appointment

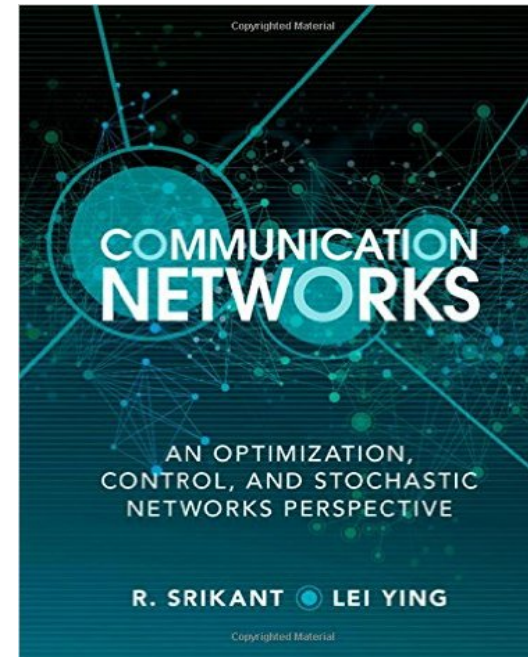
Course Overview

- **Objective**: understand the **key concepts** and **fundamental principles** in the design and analysis of computer network
- Our Approaches
 - Using the Internet as the paradigm
 - Combine **system** and **analytic** approaches (graduate level)
 - A Top-Down Approach
- Course Webpage
 - <http://www.cs.tulane.edu/~zzheng3/teaching/cms6750/spring18>
 - Used to post weekly schedule, assignments, lecture slides, reading assignment, etc.

Textbooks



Computer Networking: A Top-Down Approach (7th Edition)
James Kurose and Keith Ross



Communication Networks: An Optimization, Control, and Stochastic Networks Perspective
R. Srikant and Lei Ying

References

- [Communication Networks: A Concise Introduction](#), Jean Walrand and Shyam Parekh
- TCP/IP Illustrated, Volume 1: The Protocols (2nd Edition), Kevin R. Fall and W. Richard Stevens

Homework and Labs

- Homework assignments (4-5)
 - Written problem sets
 - Graduate level students will be given extra questions that require advanced algorithmic and/or analytic techniques.
- Labs: programming assignments (~3)
 - Python, C/C++
- Requests for a homework/lab assignment extension (with a valid reason) must be given to the instructor **before the assignment is due.**

Exams

- One midterm and one final exam
 - closed-book and closed-notes
 - a cheat sheet allowed: one letter page single-sided
- The midterm will be non-comprehensive, but the final exam will be comprehensive.
- Missing an exam will result in a grade of zero. A request for a make-up exam must be given to the instructor **prior to the exam date** (documentation may be required).

Attendance

- Attendance in class is **required**.
- Students are fully responsible for all material presented or assigned in class.

Grading

- Homework - 20%
 - Labs - 20%
 - Midterm - 20%
 - Final Exam - 30%
 - Class participation - 10%
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- All grades will be posted on Canvas.

Academy Integrity

- You are required to adhere to Tulane's [Code of Academic Conduct](#).
- You may discuss homework problems with your classmates. However, what you turn in must be your own. You may not read another classmate's solutions or copy a solution from the web.
- Every cheating will be reported to the Associate Dean of Newcomb-Tulane College. If two people are caught sharing solutions then **both** the copier and copiee will be held equally responsible. Cheating on an exam will result in failing the course.