EECS148/CompSci132: Intro to Computer Networks

Course Overview

Spring 2016

People

- Instructor: Athina Markopoulou, EECS
  - http://www.ece.uci.edu/~athina/
- TAs: Fred, Kasra, Sushruth



- Readers: TBD
- Students: EECS and CS
  - 2011-: 35-40, 2012: 96, 2013: 150, 2015: 235, **2016: 300**

What is this class about?

- Computer Networks at the introductory level
- Chapter 1 gives an overview of the materials

  - What do the following terms mean: "network architecture"? "network protocol"? "layering"?
  - What happens when I type a URL on my browser?
  - How do I write a distributed (client-server or p2p) application?
  - How does a packet get through the Internet?
  - Why is WiFi faster at home than at starbucks?
  - Why doesn't the Internet collapse under congestion?
  - Is it fair that my neighbor's iPhone downloads faster?
  - Why am I only getting a few % of advertised 3/4G speed?

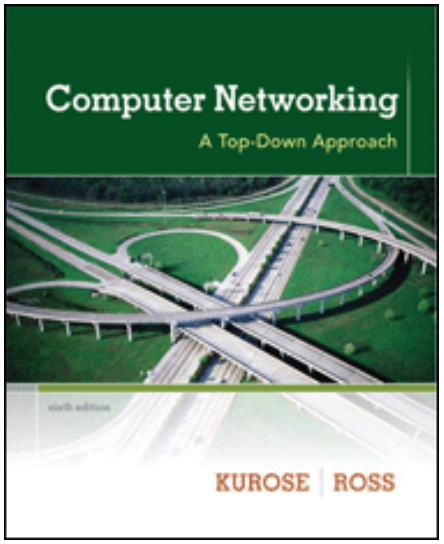
Resource 1: Course Website

- http://odysseas.calit2.uci.edu/wiki/doku.php/public:teaching-eecs148-s16
- Access to slides and homeworks on EEE:
  - Username=compnets, passwd=nets16
- MessageBoard
  - https://eee.uci.edu/toolbox/messageboard/m16680/
  - Will get back to you within 24h

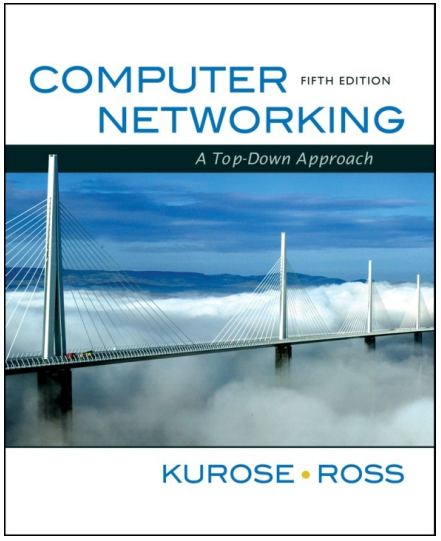
Resource 2: TextBook

- Computer Networking: A Top Down Approach, Jim Kurose, Keith Ross
  - http://www.awl.com/kurose-ross
- Paper copies
  - available at the bookstore
  - 3 copies put on 2h-reserve at the Science Library
- eTextbook/courseSmart
- Supporting materials for students:
  - Companion Website: http://wps.pearsoned.com/ecs_kurose_compnetw_6/

6th edition



5th edition



Discussion Sessions

- TAs: Fred Ahourai, Kasra Moazzemi, Sushrurh Gopal



- Materials complementary to the lecture + problems similar to homeworks + questions

- A1: Tue 10-10:50am in PBH 1300.
- A2: Mon 2-2:50pm in ELH110.
- A3: Mon 5-5:50pm in SSTR101.
- A4: Mon 6-6:50pm in SSTR101.
- A5: Thu 5-5:50pm in ELH110.
- A6: Thu 6-6:50pm in ELH110.
- A7: Thu 4-4:50pm in DBH 1422.

Office Hours & Questions

- Instructor's office hours:
  - Wed 1:30-3:30 pm in EH 4207
  - More TBA as needed
- TA's office hours: TBA
- Questions?
  - Do not email the instructor with questions of interest to the entire class
  - Post on MessageBoard first: will answer within 24h
  - Ask: questions about course materials
  - Avoid: requests for exceptions, requests for regrading

What to Expect

- Workload
  - Concepts: introductory level, focus on protocols
  - Volume of materials: high, heterogeneous
  - Homeworks (one every 2-3 weeks) + 1 midterm + 1 final
  - Programming: socket programming (python), wireshark, …
  - Analysis: (very basic) computations and probability
  - Heterogeneous student background
  - Attendance not mandatory

- Will keep it predictable
  - read your book (and the companion website)
  - do your HWs (on your own)
  - come to class/discussion/office hours *as needed*
  - message board will get you a response within 24h
  - follow the pace and you will do well!