

CS5222– Computer Networks & Internets, 2025/26 Semester A

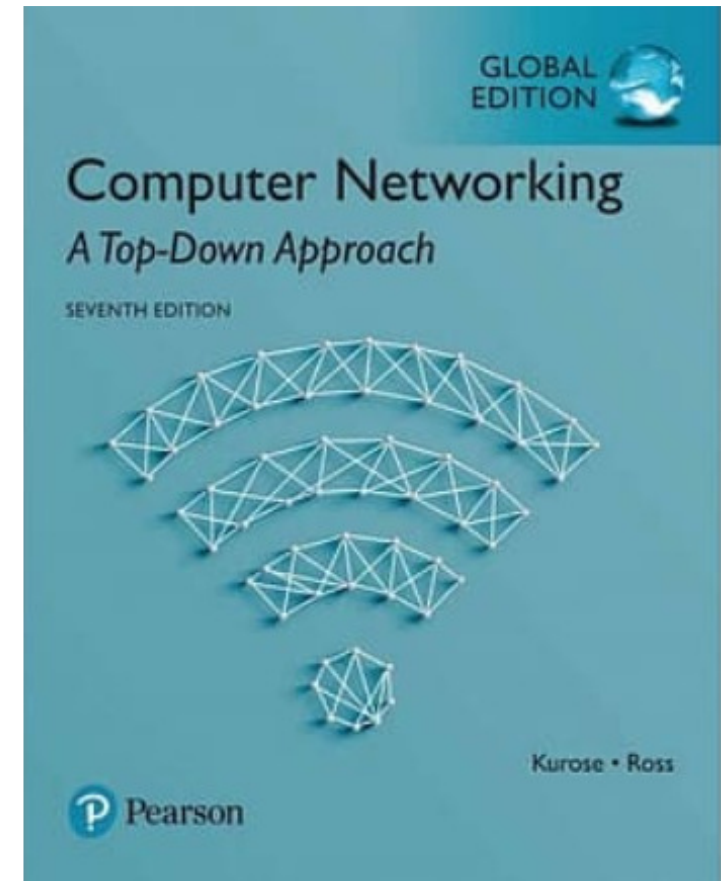
Dr. Man Hon Cheung
CS Department
City University of Hong Kong

Teaching Team

- Instructor (Lectures)
 - Dr. Man Hon CHEUNG (Michael)
 - Email: mhcheung@cityu.edu.hk
- Instructor (Tutorials)
 - Dr. Yuefeng DU
 - Email: yuefengdu2@cityu.edu.hk
- Grading TAs
 - Please refer to our course website

Teaching Materials

- Weekly lecture notes, tutorial, reading materials
- Textbook:
 - Jim Kurose and Keith Ross, “[Computer Networking: A Top Down Approach](#)”, 7th edition, Addison-Wesley, March 2017. ([Required readings](#))
 - Will also adopt some content from the 6th edition
- Slides:
 - Based on my previous slides on the 6th edition and add in new content from 7th edition



Teaching Pattern

- Lecture (2 hours per week)
 - Information sessions
- Tutorial (1 hour per week)
 - Exercises/discussions on weekly question sheet based on lecture materials/readings

Assessment

- **30% course work:**

- 15%: Three assignments (Problem sets & paper reading)
- 10%: One Wireshark assignment
- 5%: (Research report) Research on a new computer networking technology (related to Cha.1-7 of textbook) that you are experiencing in everyday lives (e.g., read in recent news or using in your office)
- Late submissions get **zero** mark

- **70% final examination**

- *“For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained.”*

Assessment (cont'd)

- **Plagiarism will not be tolerated**

- If we find that students **directly copy some solutions they found**, we will treat these cases as plagiarism, and the students will get **zero marks** for the related questions in the assignment. **No warnings will be given!**
- But you are welcome to discuss with other students. Just don't copy from one another.
- <https://www.cityu.edu.hk/pvdp/ah/uni-ah-req.htm>

Mark Appeal

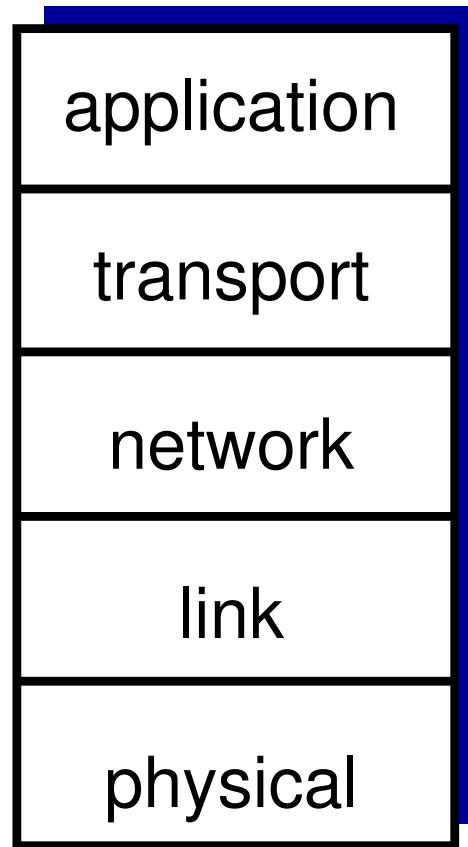
- Students are responsible to keep track on their marks.
- Any objection to the course marks should be made to the TA by email within one week of mark announcement. No change will be made afterwards.

Questions about course content?

- **Lectures & Tutorials:**
 - Ask questions during class (most efficient)
 - Priority for F2F session
 - Email instructors
 - May be directed to TAs to shorten response time
- **Grading:**
 - Will let you know who to contact in Canvas later

Course Overview

- Chapter 1: Introduction
 - Terminologies, circuit switching vs packet switching
 - Delay and loss in packet-switched networks
 - Protocol layers and their service models



Course Overview (cont'd)

- Chapter 2: Application Layer
 - Applications: Web, e-mail, domain name service (DNS), P2P file sharing, video streaming, content distribution networks (CDNs)
- Chapter 3: Transport Layer
 - Multiplexing and de-multiplexing
 - User datagram protocol (UDP) vs transmission control protocol (TCP)
 - Congestion control

Course Overview (cont'd)

- Chapter 4 & 5: Network Layer
 - Forwarding and routing
 - Internet protocol (IPv4, IPv6)
 - Routing protocols (distance vector, link state)
- Chapter 6: Link Layer
 - Error detection and correction techniques
 - Multiple access protocols
 - Link layer addressing
- Chapter 7: Wireless and Mobile Networks (if time)
 - WiFi
 - LTE
- A lot of interesting materials to cover!