香港中文大學
The Chinese University of Hong Kong

CSCI5550 Advanced File and Storage Systems

Literature Survey Presentation

CSCI5550 Course Schedule

W	Date	Lecture	Suggested Readings	Tutorial
1	Jan 6, 7	Lec01: I/O Devices	*OSTEP 36, 37*	-
2	Jan 13, 14	Lec02: RAID and Data Integrity	*OSTEP 38, 45*	-
3	Jan 20, 21	Lec03: File System Basics	*OSTEP 39~42*	-
4	Jan 27, 28	Lunar New Year Vacation	No class	-
5	Feb 17, 18	Lec03: File System Basics	*OSTEP 39~42*	-
6	Feb 24, 25	Lec04: File System Designs	*OSTEP 43, FAT, Ext4*	HW1 Released
7	Mar 2, 3	Lec05: Distributed File Systems	*OSTEP 49, GFS, Ceph*	(online Q & A)
8	Mar 9, 10	Lec06: Solid-State Drives	*F2FS*	(online Q & A)
9	Mar 16, 17	Lec07: New Hard Disk Drives	*SMR, IMR*	(online Q & A)
10	Mar 23, 24	Lec08: Memory Storage	*NVM, PMFS, UBJ*	HW1 Due
11	Mar 30, 31	Lec08: Memory Storage (Cont'd)	*LevelDB, WiscKey*	-
12	Apr 6, 7	Lec09: Advanced Storage Systems	*GraphChi, FlashGraph*	HW2 Released
13	Apr 13, 14	Easter / Survey Presentation		(online Q & A)
14	Apr 20, 21	Literature Survey Presentation		(online Q & A)
15	Apr 27, 28	Literature Survey Presentation		(online Q & A)
※	May 12	Group-based Research Proposal Due & Individual HW2 Due		

BASIC (Weeks 1–6)

ADVANCED (Weeks 7–12)

Literature Survey Presentation

- We will have **survey presentations** during the **lecture sessions** in the weeks of *April 13*, *20,* and *27.*
  - All the presentations will be held online via ZOOM.
- It is a **group-based** presentation:
  - A group can be composed of **"at most" two** students.
  - Each group will be given a **20-minute time slot** for the presentation (not including the Q & A).
    - We will conduct a fair, random process to determine the order.
    - The presentation order and time slots for each group will be announced later via the course website and the blackboard.
    - Every group **MUST** give the presentation based on the released time slot, and control your presentation time well.
      - There would be **NO** chance to have a make-up presentation.
- *Note: The specification of research proposal will be posted later.*

Paper Selection Policy

- Please pick **one paper** published in the following top conferences within the past 3 years (2017~2020):
  - ACM ASPLOS, ACM EuroSys, ACM SOSP, USENIX ATC, USENIX FAST, and USENIX OSDI.
- The topic must be related to file and storage systems.
  - Only regular, long paper can be selected.
  - Papers discussed in lectures cannot be selected.
- To control the quality of presentations, please first **email** your paper title to our TA by April 6, 2020.
  - Use the email title: "*CSCI5550_Paper_Selection_Group_ID*"
  - You will get a reply from TA about:
    - Whether the selected paper is eligible, and
    - Whether the paper has been selected by others (on a FCFS basis).

(Suggested) Presentation Structure

- You are *suggested* to organize your presentation to cover (but not limited to) the following points:
  - *Summary*. What are the major issues addressed in the papers? Do you consider them important? How the state-of-the-art designs resolved the issues? What are the new solutions and findings of the paper?
  - *Strengths*. What are the strengths of the papers? Are there any reasons why the papers should be accepted?
  - *Weaknesses*. What are the weaknesses of the papers? Are there impractical assumptions made in the papers? Are there any reasons why the papers should NOT be accepted?
  - *Improvements*. What are the potential research issues that can further improve or extend the paper?

Group List

Group ID	Student #1	Student #2	Group ID	Student #1	Student #2
1	1155092193	1155116771	11	1155095176	
2	1155076813		12	1155135538	1155136646
3	1155116219		13	1155136640	
4	1155135534		14	1155090087	1155136883
5	1155130026		15	1155137827	
6	1155092207		16	1155136637	1155077547
7	1155062141	1155120879	17	1155135537	1155140307
8	1155135535	1155135539	18	1155107965	1155107964
9	1155061912	1155128181			
10	1155086091	1155130024			