CSCI5550 Advanced File and Storage Systems

Research Proposal Specification (2019/20)

- ■ **Objectives:**
  - Study on a state-of-the-art research topic in file and storage systems
  - Write a research article to propose how to further improve the state-of-the-art research

- ■ **Requirements:**
  - It is a **group-based** assignment: The grouping should be the same as that of *survey presentations*.
  - The main topic **must** be relevant to one of the *survey presentations* delivered (by either your own group or other groups) in this course.
  - The article **must** cover, <u>but not limited to,</u> the following points:
    - o **Proposal Title**: Entitle an informative, but short and concise for your research proposal.
    - o **Declarations**: State clearly (1) whether this research proposal overlaps to your MPhil or PhD studies, and (2) which survey presentation this research proposal is relevant to.
    - o **Introduction**: Outline the key issues and problems being addressed by your research proposal.
    - o **Background**: Describe previous or alternative approaches to the research problem and criticize their strengths and deficiencies. You **must** elaborate <u>at least three</u> previous studies which are relevant to your research proposal.
    - o **Methodology**: Elaborate your useful observations/insights or suggestions/approaches that could substantially improve the state-of-the-art research. Appropriate preliminary experiments and tests can be optionally provided.
    - o **Division of Labor**: Brief the contributions/workloads made by the group member(s) individually. (Note: We may grade individually for each group member.)
    - o **References**: Cite the relevant studies properly.

- The article **should not** exceed (**6 pages** for *one-person groups*, **8 pages** for *two-people groups*), <u>excluding references</u>, using 10-point size font on 8.5x11 inch pages (US letter format, a more widely accepted format than A4 for paper submissions).
- The format should be in IEEE conference style (single-spaced and double-column). You can use the style templates for Latex or Microsoft Word, which you can download from: https://www.ieee.org/conferences/publishing/templates.html
- You are suggested to use figures or tables to illustratively present your ideas and approaches.
- You are suggested to write the article in a tutorial style, in the sense that it is comprehensible to non-specialist general readers.

- **Grading (100%)**
  - Technical depth of your criticism on previous/relevant studies (40%)
  - New technical insights or approaches (40%)
  - Quality of presentation/writing (20%)

- **Submission Deadline**: Each group must submit a softcopy in PDF format to blackboard by ~~23:59 on May 12, 2020~~ **23:59 on May 19, 2020**. (Note: Late submission is **NOT** acceptable.)