EE5178
111-2 Homework 5

20220424

Paper Survey Write-Up 100%

- From the related database related conferences, identify one paper, or a series of papers which you are interested and potentially would like to consider as the direction of your final project, and write a two-page summary report on the paper.
  - In the special case where you need to include diagrams or program/algorithm listing, don't exceed 3 pages.
- Types of your write-up: choose one from the following two options as your homework submission:
  - Type 1: Survey of one paper of your interest
    - If you choose this option, you are not allowed to use ChatGPT or similar AI tool in the process of your writing.
  - Type 2: Survey and comparison of two or three papers on a same topic
    - If you choose this option, you are allowed, but not encouraged, to use ChatGPT as one of your tools during your writing.
    - If you indeed use ChatGPT as a tool, make sure you read its output carefully before you incorporate it as part of your writing. Most likely, your will still need to rewrite heavy before using it. Also you are solely responsible for the correctness and quality of your writing, no matter what tool you use.

Source of Your Paper Survey

- If you choose option one, your paper should come from one of the following sources
  - ACM SIGMOD/PODS International Conference on Management of Data (SIGMOD/PODS 2020 till now)
    - Example link: https://2022.sigmod.org/
  - International Conference on Very Large Data Bases (VLDB 2020 till now)
    - Example link: VLDB 2022 - 48th International Conference on Very Large Data Bases
  - International Conference on Data Engineering (ICDE 2020 till now)
    - Example link: https://icde2022.ieeecomputer.my/
    - https://www.computer.org/csdl/proceedings/1000178
  - If you have special reason that you would like to choose a paper from another conference, please talk to the professor first. However, this is in general not encouraged.
- If you choose option two, at least one of your papers should come from the above sources.

Format of Your Write-Up

- Your write-up should include the title information and the following parts:
    - **Title of your survey**:
        - The title of your survey, your name and your department and grade, whether you use ChatGPT or other AI Tool
    - **Problem**:
        - What problem does the author try to solve
    - **Prior work**:
        - What is the prior work, what is the state of art before the paper(s) you survey came along
    - **Solution**:
        - What is the author's main solution
    - **Result**:
        - What's the result of the author's solution. (experiment numbers and/or theorectical reulsts)
    - **Critique**:
        - Your critique of the work. where did the work do a good job? Why?
    - **Possible extension**:
        - What kind of work can come from this work. The extention work can include:
        - Make the system run better (faster, more accurate)
        - Add functionality
        - Build new system on top of this work
    - **Citation**:
        - the title and the authors of the paper(s), and the name and year of the conference where it was published, etc.
- Your write-up should follow ACM Primary Article Template
    - There is a word template in this link ⇒ https://www.acm.org/publications/proceedings-template

Additional Notes

- The quality of your write-up will be judged by how well your understand the problem, the solution, and the results of the paper(s) you survey. It will also be judged by the depth of your critique and your suggestion about the future paper. So please attention to these parts.
- You are encouraged to use the opportunity of this homework to explore the direction and topic of your final projec. However, it is acceptable if your final project and your paper survey were conducted on different topics or directions.

Homework 5 submission

- **Deadline: 5/22 Mon. 23:59 (GMT+8)**

- File name：
  - 將檔案命名為 hw5_{student_id}.pdf (例如: hw5_r07000001.pdf)
  - **請繳交PDF檔**，格式錯誤一律扣10分

- Submission：NTU Cool
  - 請清楚列出每個section，可參考NTU Cool 作業區檔案 ACM_template_hw5.docx，LaTeX 版本 參考 https://www.acm.org/publications/proceedings-template
  - 需註明是否使用 ChatGPT 或其他AI輔助工具

Homework 5 submission

- Delay
  - One day: original score * 0.8
  - More than two days: get no points
- TA hour: Mon. 09:00 – 11:00 @ 博理603
- TA mail: ntudbms2023.ta@gmail.com
- Q&A : TA mail