

Multimedia System and Application Project

Objective:

This project requires students to repeat a research project reported in a paper published in a recent ACM Multimedia conference. The goal of this semester-long multimedia project is to allow students to learn the latest research development in multimedia field and gain hand-on experiences in applying the multimedia theories and techniques they will learn in the course to solve a real-world multimedia problem.

Project Phases:

- **Phase 1 (Learning):** The students will be given 30 to 50 papers published in recent ACM Multimedia conferences. The students will form teams to study and comprehend a few papers from the papers given by the instructor. Each team then selects one paper that they will present and repeat the research in phases 2 and 3.
- **Phase 2 (Presentation):** Each team will give a group presentation in the class to discuss the paper they select, answer questions about the paper from the instructor and other students.
- **Phase 3 (Research):** A team will conduct research presented in the paper by following the research steps given by the original authors (the team may alter the research approaches if they desire). Each team will complete a research report in the end of the semester.

Project Policy:

- The project should be done by a team of 2 students. Each team should nominate a team leader who will be responsible for organizing team meetings and communicating with instructor on important issues related to the project.
- Each team must finish their project independently. Any form of cheating (including copying or reusing code from any source) will result in **0 (zero)** point for the project.
- Students must submit their project deliverables at the specified due dates. Late submission will not be accepted unless being approved by instructor.
- Intermediate results of the project will be evaluated and feedbacks will be given to improve the project. The instructor may not grant any extension of the project deliverables to ensure feedbacks will be given in a timely manner.
- The project report must include the project design, system architecture, implementation details, source code, installation instruction and user manual, whatever is applicable.

Project Deliverables (Due dates will be posted online):

1. Presentation of the paper (20%)
2. Research and final report (80%)

How to submit:

Please zip your source code or documents into a single file. You must include your team number in the file name and send the file to the instructor by email. For instance, **team 4** should name their proposal submission as “**team4P.rar**” and name their final project submission as “**team4F.rar**”. All students must also email peer evaluation forms to the instructor after they submit their deliverables.

Questions and Concerns:

If you have any questions or concerns regarding this project, or if you feel any part of the project description is confusing, please talk to the instructor. Making false assumptions about the project may result in a low grade.