University at Buffalo, State University of New York

Spring 2017

CSE 534: Multimedia Systems

Midterm Project Planning Report Guidelines

1. Selection of Topics
   a. Your project will need to design a multimedia system with one topic in Chapters 2-5 to be combined with another topic in Chapters 6-10.
   b. One example of such combination: Research on entropy coding and the impact of transmission error on the entropy encoded multimedia data
   c. Another example: Research on motion estimation for video coding and error concealment technologies to recover possibly lost motion vectors.
2. Literature Search:
   a. Search the Internet for papers in some related topics in multimedia systems that you plan to do your project
   b. Narrow your search to specific topics. You may look at the list of project topics from previous years for your reference (already posted in UBlearns)
   c. Download at least five papers related to this particular topic area

2. Literature Reading:
   a. Read all these (at least five!) papers you downloaded from the Internet
   b. Select at least two papers for in-depth reading. This can be the major references for your course project
   c. Write a two-page report on the papers you selected (all 5+ papers need to be addressed, including the ones that were not selected for in-depth study.)
   d. The report should explain why you have selected such a topic and what you have learned from reading these 5+ papers

3. Project Plan
   a. Based on the reference papers, especially the ones with in-depth review, draft a project plan (2-3 pages) with major steps and milestones
   b. Outline both hardware and software needs for your project and your plan to acquire equipment/knowledge of required hardware and software.
   c. You are welcome to discuss your project plan with Prof. Chen to make sure that your proposed project is adequate as a course project.
4. Bonus
   a. If your project is successfully implemented on smartphone or android-based devices, you will receive 10% bonus towards your semester grade.

5. Submission Deadline
   a. This midterm planning report (total 4-5 pages) is due on **Tuesday, April 4, 2017** at 11:00am via UBlearns.