CMPT 820 - G100 Multimedia Systems

Instructor(s): Ze-Nian Li

SFU Burnaby

Calendar Objective/Description:
This seminar course covers current research in the field of multimedia computing. Topics include multimedia data representation, compression, retrieval, network communications and multimedia systems. Computing science graduate student or permission of instructor.

Instructor’s Objectives:
This seminar course surveys current research in the field of multimedia computing. Topics include multimedia data representations, compression, 3D videos and TV, image and video quality assessment, and visual content analysis and retrieval. An extensive reading list will be provided. This will be a seminar, not a lecture course. Good preparation for discussion and willingness to contribute actively to the seminar are required. There are also programming assignments and one term project. This course is in Area 5.

Prerequisites:
None

Topics:
- Introduction
- Multimedia Data Representations
- Image and Video Compression
- 3D Videos and TV
- Image and Video Quality Assessment
- Visual Content Analysis and Retrieval
- Audio Compression
- Other Topics

Grading:
Programming assignments 20%, Class presentation and participation 40%, Term project 40%.

Recommended Books:

Academic Honesty Statement:
Academic honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty will be handled in accordance with the SFU Academic Honesty and Student Conduct Policies (http://www.sfu.ca/policies/gazette/student.html).