CMPT 820 Multimedia Systems
Spring 2004

Seminar Time: Mon.&Wed. 11:00-12:30
Classroom: AQ 4120

Instructor: Dr. Mark S. Drew, ASB 10839 (291-4682), mark@cs.sfu.ca
Office Hours: Mon. 13:30-15:30

Objectives: This seminar course surveys current research in the field of multimedia computing. Topics include multimedia data representations, compression, network communications, and content based retrieval in digital libraries.

Topics: a selection from

- Introduction
- Multimedia Data Representations
- Multimedia Data Compression
- Wavelets and Multiresolution Image Processing
- Content Based Retrieval in Digital Libraries
- Multimedia Network Communications
- Other Topics

Prerequisites: CS graduate students or permission of the instructor

Grading: Programming assignment 15%, quiz (Feb. 11, 45 minutes) 15%, class presentation and participation 35%, term project 35%

Late Penalties: Assignments are due at the beginning of the specified class time. For each day late, 10% of the total possible points will be deducted. No work will be accepted after two days late.

References:

- Z.-N. Li and M.S. Drew, "Fundamentals of Multimedia", *Prentice-Hall*, 2003.
- R. Steinmetz and K. Nahrstedt, "Multimedia: computing, communications & applications", *Prentice Hall PTR*, 1995.
- V. Bhaskaran and K. Konstantinides, "Image and Video Compression Standards", 2nd ed., Kluwer Academic Publishers, 1997.
- A. Murat Tekalp, "Digital video processing", Prentice Hall PTR, 1995.
- "Multimedia systems, standards, and networks", edited by Atul Puri and Tsuhan Chen, Marcel Dekker, 2000.