



CMPT 469 - D100 Special Topics in Computer Graphics

Instructor(s): TBA

SFU Burnaby

Calendar Objective/Description:

Current topics in computer graphics depending on faculty and student interest.

Instructor's Objectives:

ST Title: DATA DRIVEN METHODS OF VISUAL MEDIA SYNTHESIS

This course covers a few topics of visual media synthesis with the emphasis on data driven methods. Topics include texture, image, video and relighting. Through the course we will exercise some basic computational techniques, including non-parametric sampling, dynamic programming and graph cut optimization. Meanwhile, we will try to approach visual media in a cognitive science perspective and suggest potential research directions of this field.

No official textbooks; materials are from recent years SIGGRAPH/CVPR/etc papers. Paper list will be released throughout the course.

Prerequisites:

CMPT 361.

Topics:

- Texture synthesis
- Image editing and composition
- Video synthesis
- Image relighting
- Visual depiction (tentative)

Grading:

To be discussed the first week of classes.

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>).