Computing Science Course Outlines  2019 Spring

CMPT 888 - G200 Special Topics in Computer Graphics, HCI, Vision and Visualization

Instructor(s):  Brian Funt  SFU Burnaby

Calendar Objective/Description:
Examines current research topics in computer graphics, human computer interaction (including audio), computer vision and visualization.

Instructor's Objectives:
Course Title: Computational Colour Vision. The course will address many issues related to colour imaging, colour in computer vision, and human colour perception generally from a computational point of view (i.e., from an algorithmic, process-oriented viewpoint) By reading and discussing recent research papers on colour, we will attempt to understand the recent advances in digital colour imaging, colour perception, colour printing, and colour-based object recognition. While all the different aspects and applications of colour research interrelate, our primary focus will be on computational models of colour perception. Colour is an area that touches on many fields beyond Computing Science---Psychology, Engineering Science, Physics, Mathematics, Communications---so, graduate students from these other fields are welcome in the seminar. There is no specific prerequisite for the seminar (other than being interested in colour). Math ability is an asset. Please feel free to contact me if you'd like to discuss your background or to get further details about the course. The course will run as a discussion seminar, not a lecture. Good preparation for discussion and a willingness to contribute actively to the seminar are crucial. You can find a link to the course evaluations for CMPT 822 (course number used previously) on http://www.cs.sfu.ca/~funt/

Prerequisites
None.

Prerequisites:
None

Grading:
Grading will be based primarily on participation in the class discussion. This will be discussed in detail at the first class. I try to make it safe and comfortable for everyone to contribute to the discussion, but some shy students have found fully participating in this course a little difficult. On go.sfu.ca you might see a final exam time for this course, but there will NOT be a final exam.

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).