Instructor: Dr. Ze-Nian Li, TASC-1 8823 (291-3761), li@cs.sfu.ca
Office Hours: Wed 3:30-4:20, or by appointment

Objectives: This seminar course studies issues and research results pertinent to Robot Vision. Emphases will be on sensing, 3-D vision, active vision, and some new approaches to vision. We will attempt to acquire a general overview of the area and an understanding of the current research problems. Students are required to join actively in class discussion and to lead the discussion of at least two papers.

Topics:  
- Introduction  
- Sensing (stereo, laser, SLAM)  
- 3-D Vision (models and algorithms)  
- Optimization (energy minimization) Methods  
- Tracking  
- Active Vision  
- Brains and Robots  
- Contemporary Robotic Systems  
- Other Topics

Prerequisites: CS or ENSC graduate students or permission of the instructor

Grading: Programming assignments 20%, class presentation and participation 40%, term project 40%

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.

Recommended:  