**CSC528 Assignment 2.**

**Problem 1:** Image matching

Implement exercises 4.2 and 4.4 in the Szeliski book. I recommend using SIFT for 4.2, although you can choose another image descriptor, if you wish. For your images, you can use any pair you like. I have supplied a test pair on the class site: first\_image and second\_image. Once you have a feature matching algorithm that works on a simple case, try it on a more challenging case.

**Problem 2:** Camera calibration

Implement programming assignment 1 from Chapter 11 of the Forsyth book. Choose a stereo pair (or two adjacent frames in a video sequence); first\_image and second\_image are acceptable. Pick your 8 points in two different ways: 1) use hand chosen points; 2) use your feature matching from problem 1 above. Analyze the results of your program: in particular, what differences do you notice between the two fundamental matrices calculated?

**Put all your work into a single file: all images, text responses; and program code. Submit using the dropbox in D2L.**