

CMPT882: Recognition Problems in Computer Vision

Instructor: Greg Mori

Fall 2004

Course website:

<http://www.cs.sfu.ca/~mori/courses/cmpt882>

Grading scheme:

- 10% reading assignments
- 20% assignments (two of them)
- 70% project (10 plan, 30 presentation, 30 report),

List of topics:

Week 1 (Sept 10): Administrivia, Intro, edge detection

Week 2 (Sept 17): Texture recognition / synthesis

Week 3 (Sept 24): Shape matching

Week 4 (Oct 1): Handwritten digit recognition

Week 5 (Oct 8): Face detection

Week 6 (Oct 15): Recognition using Local Features

Week 7 (Oct 22): Face recognition

Week 8 (Oct 29): 3d Object recognition

Week 9 (Nov 5): Detection of human figures

Week 10 (Nov 12): Activity recognition

Week 11 (Nov 19): Scene/location recognition, Words and pictures

Week 12 (Nov 26): Project presentations / other topics (tracking, segmentation)

Week 13 (Dec 3): Project presentations

Assignment dates (tentative):

A1: Out week 2, In week 4

A2: Out week 6, In week 8

Project proposal: Out week 4, In week 7

Project report: In last day of classes

Textbooks:

No required texts. The following two books have been placed on hold in the library for reference:

D. Forsyth and J. Ponce, "Computer Vision: A Modern Approach"

E. Trucco and A. Verri, "Introductory Techniques for 3-D Computer Vision"