CAP6411 - Computer Vision Systems
Spring 2006
Monday Wednesday 4.30pm-5.45pm

Instructor: Dr. Alper Yilmaz (yilmaz@cs.ucf.edu)
Room: CSB 250
Office Hours: 3.30pm-4.30pm Monday Wednesday
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Notice: The University Golden Rules will be observed in this class. Copying or Plagiarism is violation of the UCF Golden Rules.

Coarse Objectives:
This course is advanced level. It will cover advanced machine vision topics and requires introductory knowledge on computer vision.
- Object representations
  - Points, primitive regions, contours, skeletal
- Image segmentation
  - Mean-shift,
  - Graph-Cut: Min-Cut, Normalized Cut
  - Active contours
- Object detection
  - Support vector machines
  - Adaptive boosting
- Object tracking
  - Point trackers,
  - Region trackers,
  - Active contour trackers,

Prerequisites: A good background in calculus, geometry, linear algebra, programming in MATLAB or C, as well as introductory knowledge on Computer Vision.

Grading:
The final grades will be given in the form of a+, a-. The conversion table is given below.

100	95	a+
94	90	a-
89	80	b+
79	70	b-
69	..	c

Grading Policy
Class Assignment: %20
Programming Assignment: %25
Programming Project: %35
Pop Up Quiz: %20 (Undisclosed days, at the end of class)
Total: %100