CS331B (3 units)

3dRR: Representation and Recognition

Instructor: Silvio Savarese
Email: ssilvio@stanford.edu
Office: Gates, room: 228
Office hour: by appointment

TA: Scott Chung
scottc52@gmail.com

Class Time & Location
• Monday & Tuesday 2:15-3:30pm
Agenda

• Administrative
  – Requirements
  – Grading policy

• Overview of this course
Prerequisites

• Some experience in research with one of the following fields: computer vision (CS 231) & machine learning (CS 229)
References:


- Links to papers and supplementary material from syllabus page
Requirements

• Co-Present once or twice during the course
  – Each lecture will have theme
  – 2 students share one theme
  – 2 presentations in total
  – Some themes are presented by domain experts

• Read papers and participate at class discussion during paper presentations
  – During the lecture be prepared to ask questions. At the end of each lecture, two discussion leaders are randomly selected: the discussion leader will ask questions to the presenters and lead a 5-minute discussion panel; the quality of the questions & discussion panel will be used for evaluating class participation.
  – The more questions you ask during each lecture, the better!

• Course project [see later]
Course Project Evaluation

• Form your team:
  – 1-2 people per team
  – the quality is judged regardless of the number of people on the team
  – be nice to your partner: do you plan to drop the course?

• Evaluation
  – Quality of the project (including writing)
  – Final ~20 minutes project presentation in class – students will vote on your presentation!
Grading policy

• Course project: 50%
  – progress report 5%
  – final report 35%
  – presentation 10%

• Attendance and class participation: 20%
  – See class participation protocol

• Paper presentation (quality, clarity, depth, etc.): 30%

• Late policy project:
  – If 1 day late, 25% off the grade for the project
  – If 2 days late, 50% off the grade for the project
  – Zero credits if more than 2 days

• Collaboration policy
  – Read the student code book, understand what is ‘collaboration’ and what is ‘academic infraction’.
  – Discussing project assignment with each other is allowed, but coding must be done individually
  – Using online presentation material (slides, etc...) is not allowed in general. Exceptions can be made and individual cases will be discussed with the instructor.
syllabus

• Syllabus contains the schedule of the course with the list of papers to present:

http://www.stanford.edu/class/archive/cs/cs331b/cs331b.1142/cgi-binmediawiki/index.php/Main_Page

• Look at the syllabus page for important dates (e.g., reports due dates) and updates;

• NOTE: the syllabus page is still under construction
Open Computer Vision

The Open Computer Vision Library has > 500 algorithms, documentation and sample code for real time computer vision.

Tutorial documentation is in O'Reilly Book: Learning OpenCV

http://sourceforge.net/projects/opencvlibrary/
Agenda

• Administrative
  – Requirements
  – Grading policy

• Overview of this course