lecture	Class Dates	Topic	Slides	Reading	Homework/Exam
1	T, Sept. 16	Introduction to computer vision	**pdf**	Szeliski 1	
		Image Formation and Filtering			
2	Th, Sept. 18	Cameras and optics & git and github	**pdf**	Szeliski 2.1 especially 2.1.5	homework 0 out
3	T, Sept. 23	Light and color	pdf	Szeliski 2.2 and 2.3	
4	Th, Sept. 25	Image filtering & MATLAB Tutorial	pdf	Szeliski 3.2	homework 0 due
5	T, Sept. 30	Thinking in frequency	pdf	Szeliski 3.4	homework 1 out
6	Th, Oct. 2	Image pyramids and applications & show and tell	pdf	Szeliski 3.5.2 and 8.1.1	
		Feature Detection and Matching			
7	T, Oct. 7	Edge detection	pdf	Szeliski 4.2	
8	Th, Oct. 9	Interest points, corners, and local image features	pdf	Szeliski 4.2	
9	T, Oct. 14	Feature matching and hough transform	pdf	Szeliski 4.3	homework 1 due
10	Th, Oct. 16	Model fitting and RANSAC & show and tell	pdf	Szeliski 4.3	homework 2 out
11	T, Oct. 21	*Panorama Stitching	pdf	Szeliski xx	

		Multiple Views and Motiong			
12	Th, Oct. 23	Stereo and Structure from Motion	pdf	Szeliski 7	
13	T, Oct. 28	Feature Tracking and Optical Flow	pdf	Szeliski 4.1.4 and 8.4	
		Machine Learning Crash Course			
14	Th, Oct. 30	Machine learning intro and clustering	pdf	Szeliski 5.3	homework 2 due & project proposal due
15	T, Nov. 4	Machine learning: classification	pdf		homework 3 out
		Recognition			
16	Th, Nov. 6	*Recognition overview, bag of features, large-scale instance recognition	pdf	Szeliski 14, 4.1, and 4.3	
17	T, Nov. 11	*Scene recognition	pdf	Szeliski xx	
18	Th, Nov. 13	Detection with sliding windows: Viola Jones	pdf	Szeliski 14.1	
19	T, Nov. 18	*Mixture of Gaussians and advanced feature encoding	pdf	Szeliski xx	homework 3 due
20	Th, Nov. 20	*Modern Object Detection & show and tell	pdf	Szeliski xx	homework 4 out
21	T, Nov. 25	*3D Object Dection and Pose Estimation	pdf	Szeliski xx	
22	Th,	*Working with RGB-D	pdf	Szeliski xx	

	Nov. 27				
23	T, Dec. 2	*Image Parsing	pdf	Szeliski xx	
24	Th, Dec. 4	Context and Spatial Layout	pdf	Szeliski 14.5	homework 4 due
25	T, Dec. 9	Internet scale vision	pdf		
26	Th, Dec. 11	Human computation and crowdsourcing	pdf		midterm project report due
27	T, Dec. 16	Attributes and more crowdsourcing	pdf		
28	Th, Dec. 18	*Modern boundary detection and Pb & show and tell	pdf		
29	T, Dec. 23	*Human pose estimation	pdf		
30	Th, Dec. 25	*Action and Event	pdf		
31	T, Dec. 30	Project Pitch	pdf		
No Class	Th, Jan. 1	元旦 Happy new year			
32	T, Jan. 6	*Video analysis	pdf		
33	Th, Jan. 8	*Mobile Vision	pdf		
34	T, Jan. 13	Project presentation			

| 35 | Th, Jan. 15 | Project presentation | | | final project report due |