

#	Lecture	Tutorial	HW publish date
[1] 18/3	Introduction to Computer Vision Image filtering <i>Application: Deblurring</i>	Image processing in Matlab Math Fundamentals	
[2] 25/3	Image sampling <i>Application: Super-resolution</i>  Color, color spaces and human color perception <i>Applications: Product search, skin detection, tracking</i>	Scale-space & Image pyramids  Application: Style Transfer for Headshot Portraits	
[3] 1/4	Edge detection Finding lines - fitting parametric models - <i>Applications: road lines detection, electricity line detection, biological image analysis, architecture</i>	Machine learning in computer vision+ Intro to deep learning	HW1 (scale-space, Hough)
[4] 8/4	Feature detection From points to regions Feature descriptors	Intro to deep learning	
[5] 15/4	Deep learning of features Image transformations and alignment Deep deblurring and superresolution	Image Alignment Application: creating panorama	HW2 (Deep intro, Panorama, optical flow)
[6] 29/5	Image segmentation Apps: Recognition, image editing, pre-processing for various tasks	Deep segmentation	
[7] 13/5	Feature tracking in video and optical flow estimation	Style transfer (classical and deep based) Deep Image colorization?	
[8] 20/5	The pinhole camera Camera calibration	Camera calibration	HW3 (camera calibration)
[9] 27/5	Single view metrology Epipolar geometry Rectification	Epipolar geometry and Rectification	
[10] 3/6	3D reconstruction	TBD	
[11] 10/6	Face recognition	Saliency detection with PCA	HW4 (Eigen-faces, saliency)
[12] 17/6	Image Categorization	CNN for Detections	
[13] 24/6	Convolutional Networks for Recognition  Class summary	GANs	