

Lecture 10: Edge Detection*Lecturer: Rich Radke**Scribes: Yao Zhang*

It covers: edge detection, the Sobel edge detectors, derivatives and edges, image gradients, Matlab gradient example, thresholding gradient magnitude and angle, Laplaceian of Gaussian (Marr-Hildreth, Mexican hat) detector, difference of Gaussian detector, the Canny edge detector, Matlab Canny examples.

Follows section 10.2 the textbook (Gonzalez and Woods, 3rd ed).

References

[GW18] GONZALEZ and WOODS, Digital Image Processing, *Pearson*, 2018.