

Lecture 12: Thresholding*Lecturer: Rich Radke**Scribes: Yao Zhang*

It covers: thresholding, relationship to segmentation, Matlab example, relationship to image histogram, global vs. local thresholding, challenges in global thresholding, global thresholding, Otsu's algorithm, Otsu examples in Matlab, generalizations of Otsu, when Otsu fails, variable/adaptive thresholding, Matlab's `blockproc` command, Matlab examples, per-pixel thresholding, color thresholding, thresholding on distance from a chosen color and a machine learning approach..

Follows section 10.3–10.4 of the textbook (Gonzalez and Woods, 3rd ed).

References

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