

Lecture 6: Spatial Fil*Lecturer: Rich Radke**Scribes: Yao Zhang*

It covers: Spatial filters, connection to connection, the spatial domain, applying spatial filters, smoothing filters, filtering in Matlab, averaging to remove Gaussian noise, sharpening filters, general low-pass filters, horizontal and vertical edge detectors, the Laplacian, Matlab examples, enhancing edges, unsharp masking, Sobel edge detectors, the median filter (nonlinear).

Follows section 3.4–3.6 the textbook (Gonzalez and Woods, 3rd ed).

References

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