Report for Q1

October 18, 2020

1 Observation

For Figure 1, the optimal parameters for harris corner detection are:

- Standard Deviation for Gaussian blurring the image before computing gradients, $\sigma = 2.0$

- Standard Deviation for Gaussian Weighted Average used in computation of structure tensor, $s = 0.45$

- The constant k in the corner-ness measure calculation, $k = 0.12$
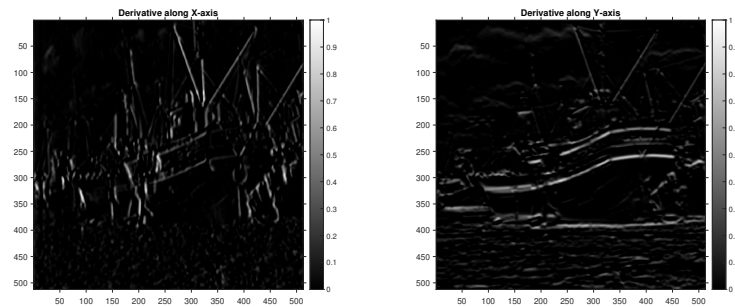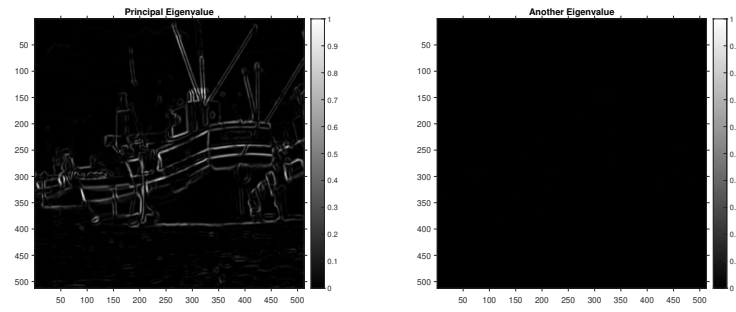
Figure 1: Original Image

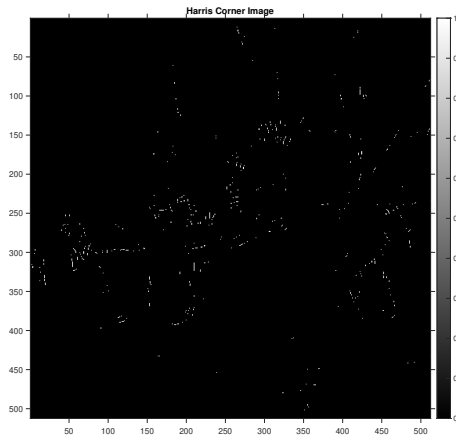
Figure 2: Derivative Images
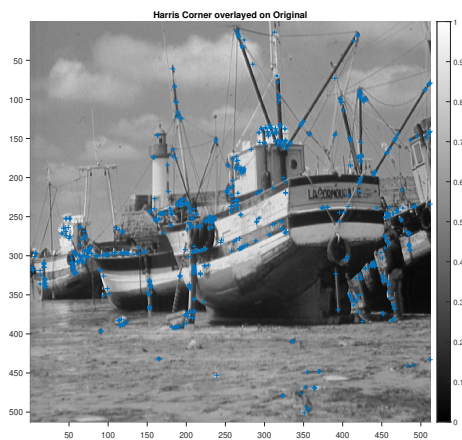
Figure 3: Eigenvalue Images

Figure 4: Harris Corner Mask

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Figure 5: Harris Corner overlayed on Original Image