

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

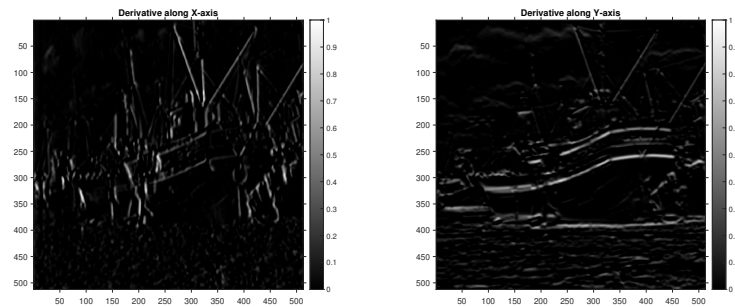


Figure 2: Derivative Images

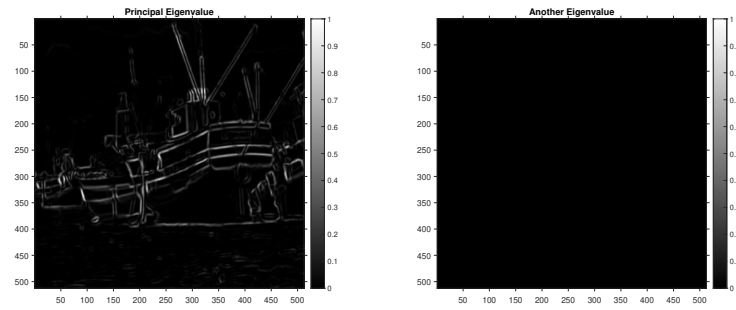


Figure 3: Eigenvalue Images

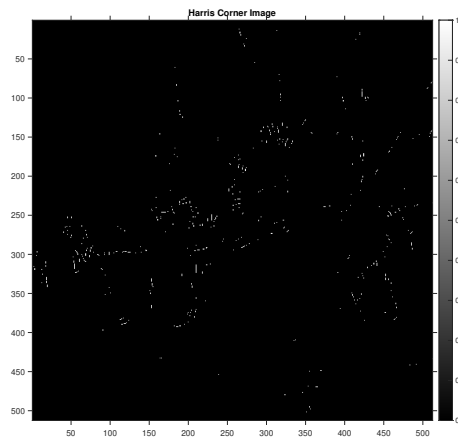


Figure 4: Harris Corner Image