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
- \bullet The constant k in the corner-ness measure calculation, k=0.12



Figure 1: Original Image

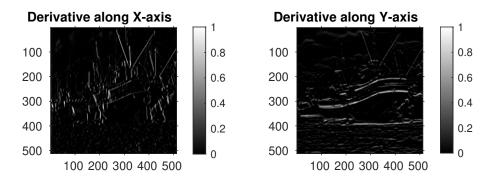


Figure 2: Derivative Images

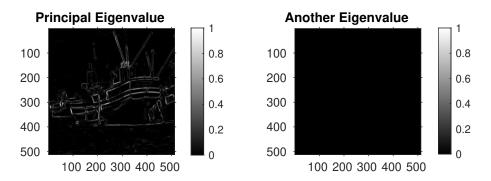


Figure 3: Eigenvalue Images

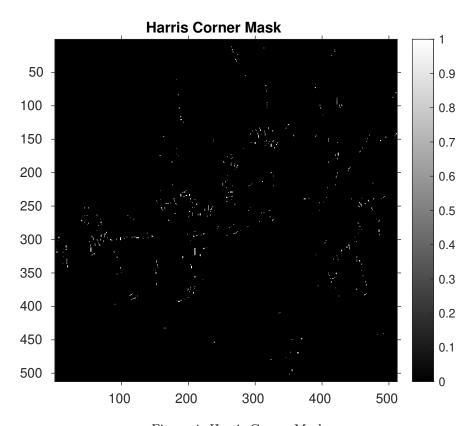


Figure 4: Harris Corner Mask

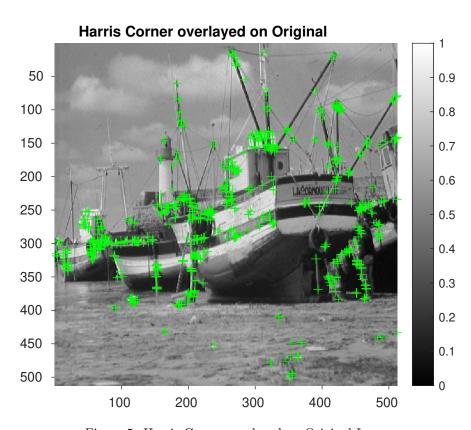


Figure 5: Harris Corner overlayed on Original Image