ASSIGNMENT 3 QUESTION 1

Files included --

- gaussianSmooth.m
- myMainScript.m
- myHarrisCornerDetector.m
- sobelOp.m

Parameters - gaussian parameter 1 (s1) = 2 gaussian parameter 2 (s2) = 2
Cornerness measure (k) = 0.05

OUTPUT -
For boat.mat
Figure 1 - X derivative

Figure2 Y derivative

Figure 3 --- Eigenvalue 1

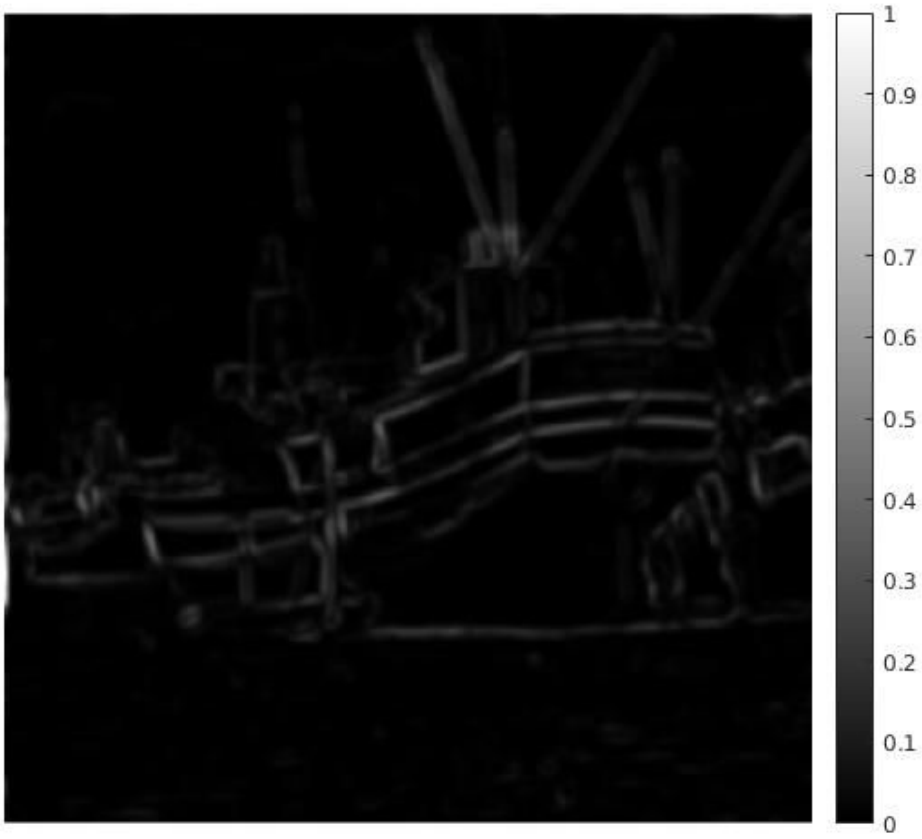


Figure 4 -- Eigenvalue 2

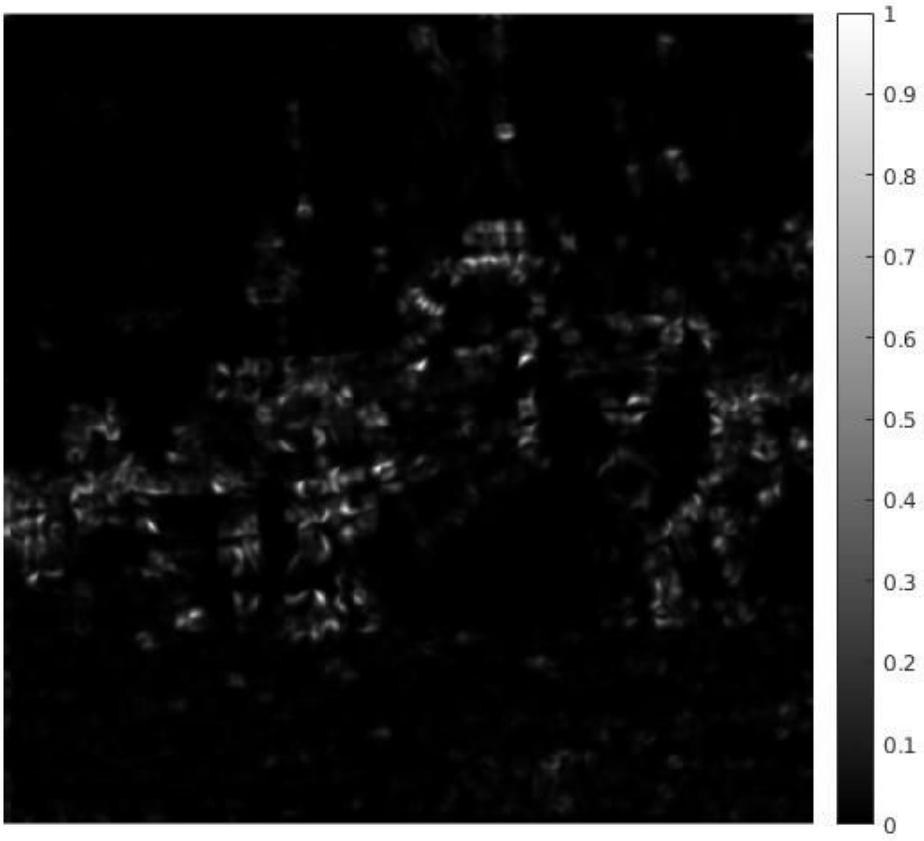
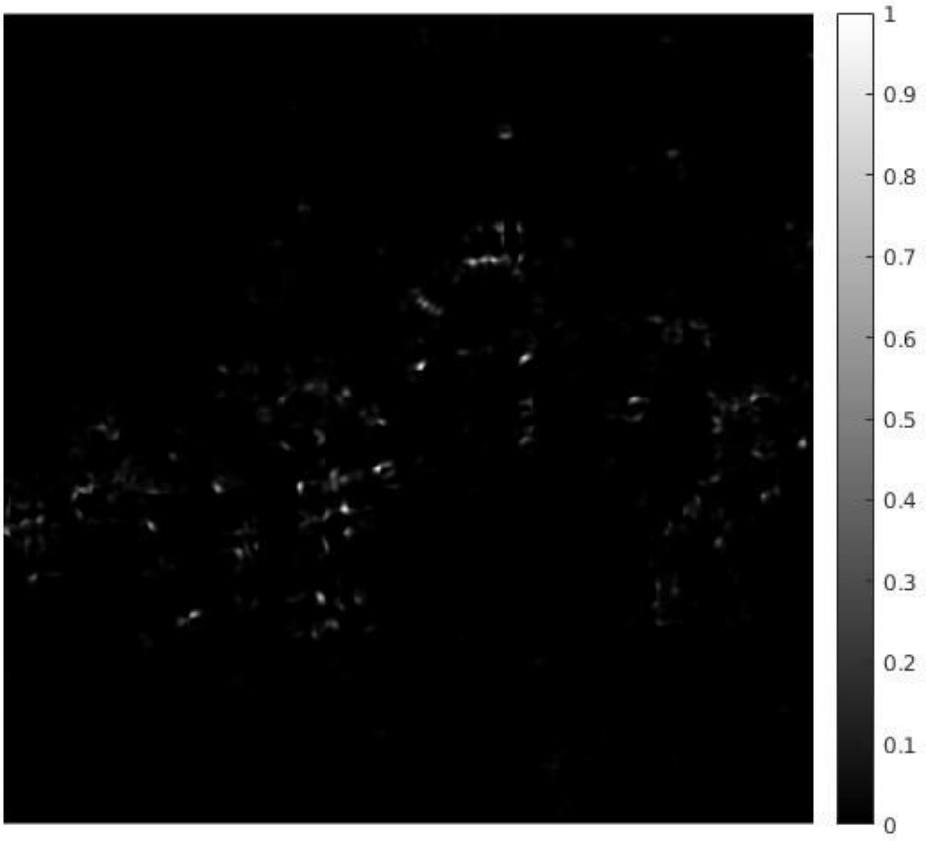


Figure 5 -- Cornerness - Measure



Description

White spots in figure 5 are corresponding to corners in original images. K = 0.05 is optimal value. For k = 0.1 and 0.2 corners are missing out. And for K around 0.01 white spots corresponding to edges also appear.