

Q2 Harris Corner Detection

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Report:

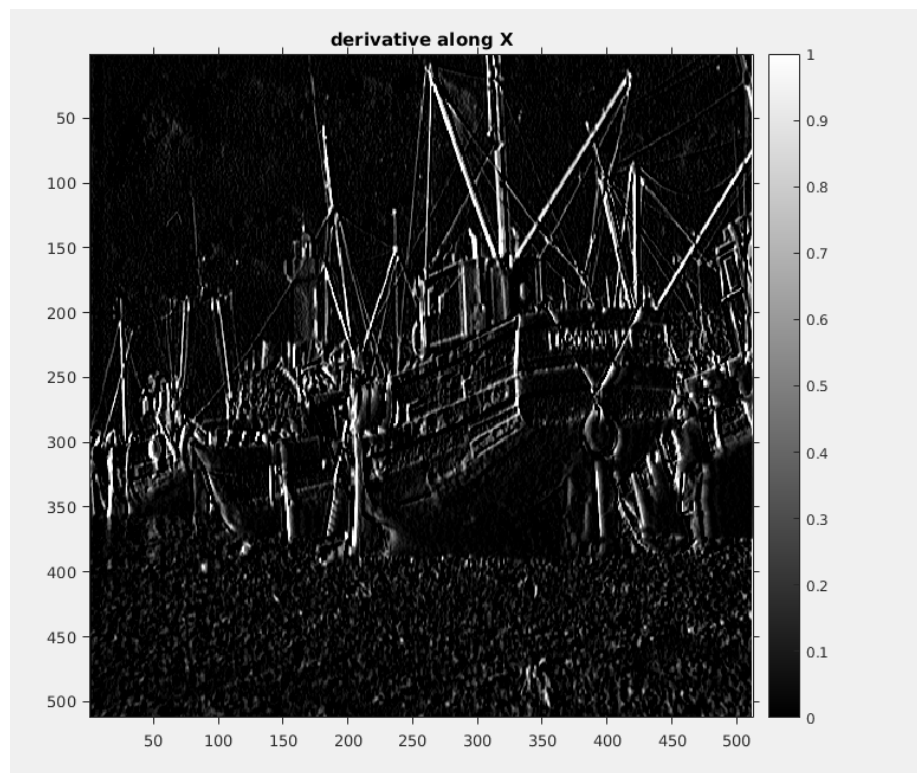


Figure 1: Derivative image, corresponding to the derivative along the X axis

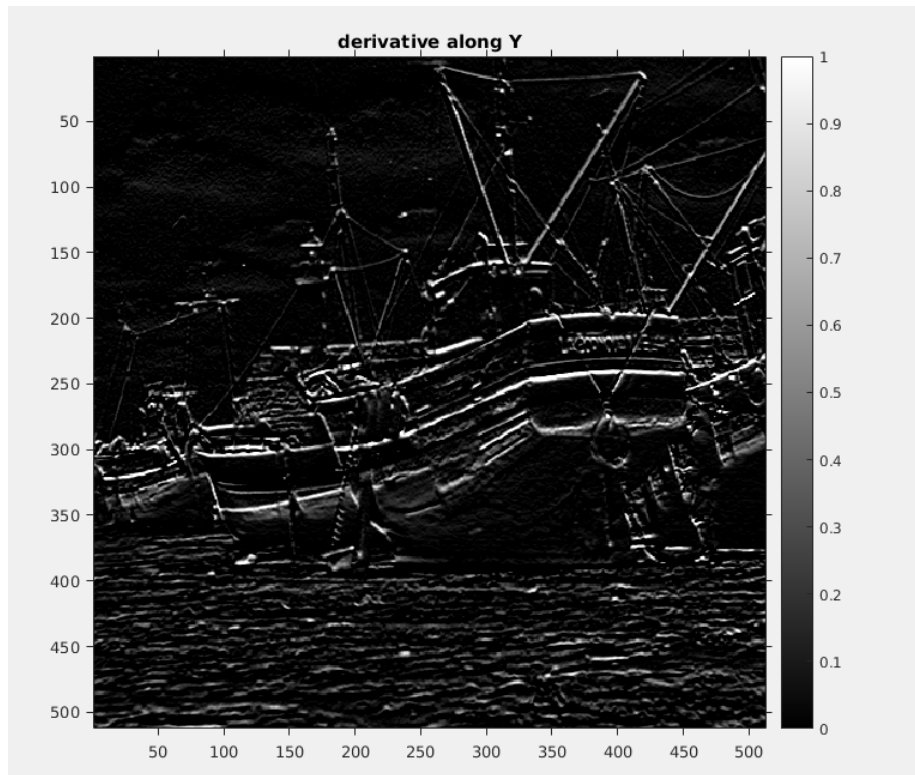


Figure 2: Derivative image, corresponding to the derivative along the Y axis

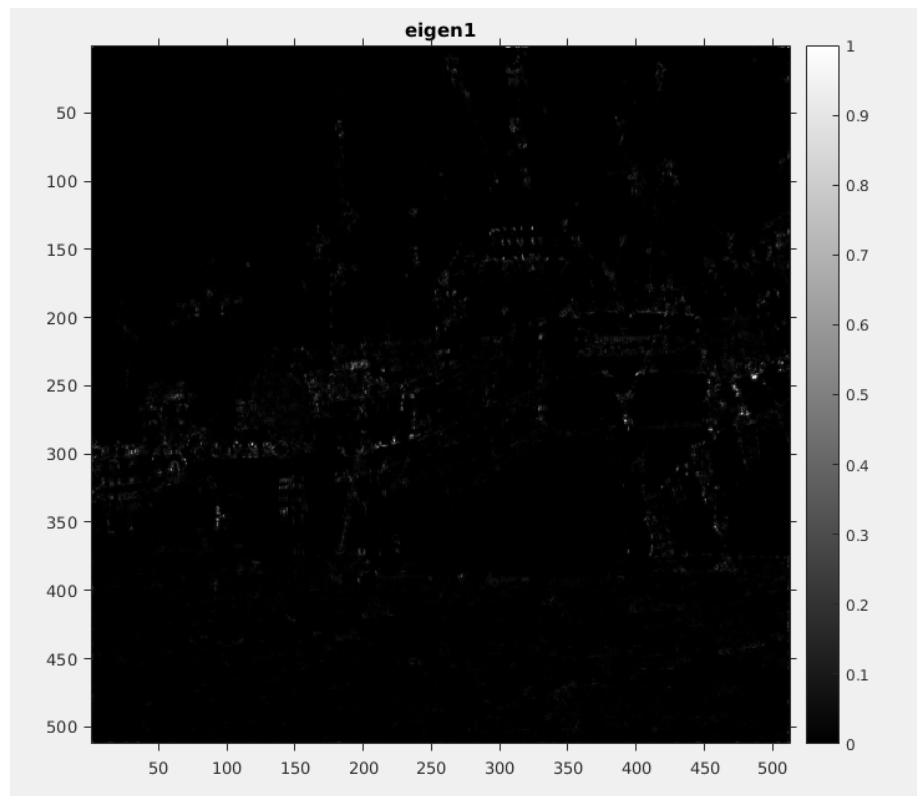


Figure 3: Eigenvalue 1

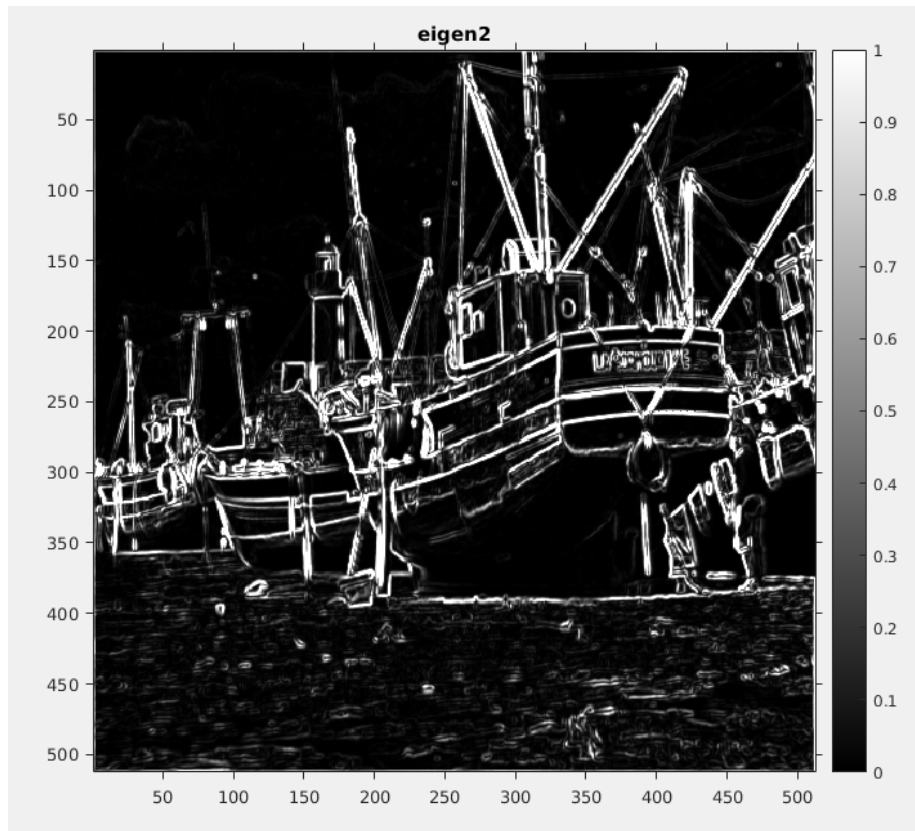


Figure 4: Eigenvalue 2

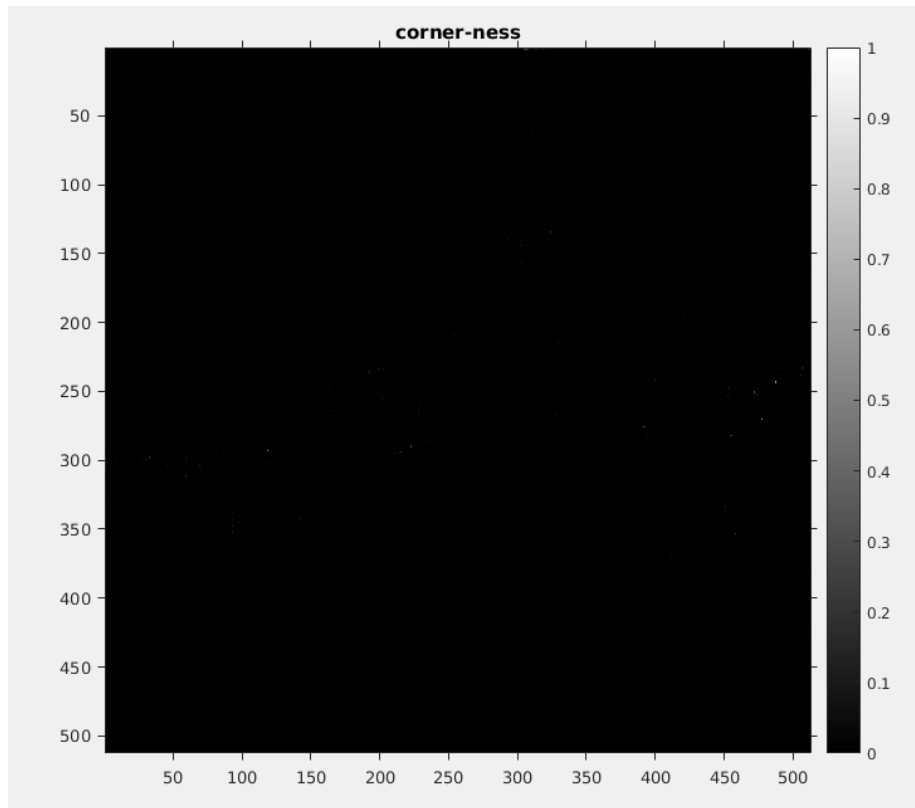


Figure 5: Harris corner-ness measure image

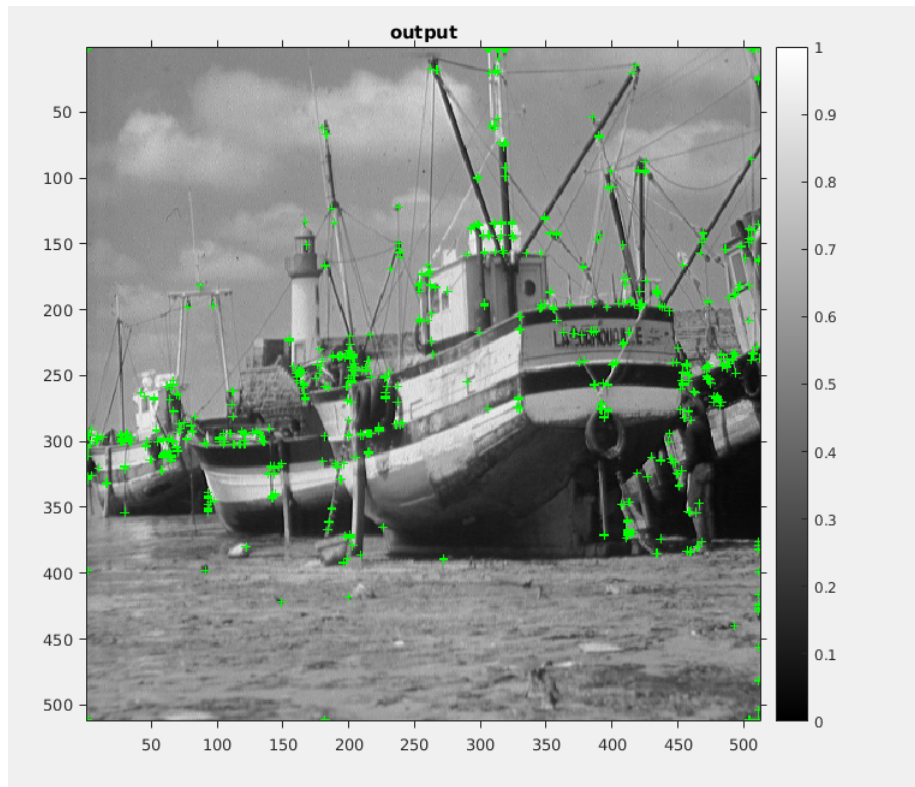


Figure 6: Final Output without Non-Maximal Suppression

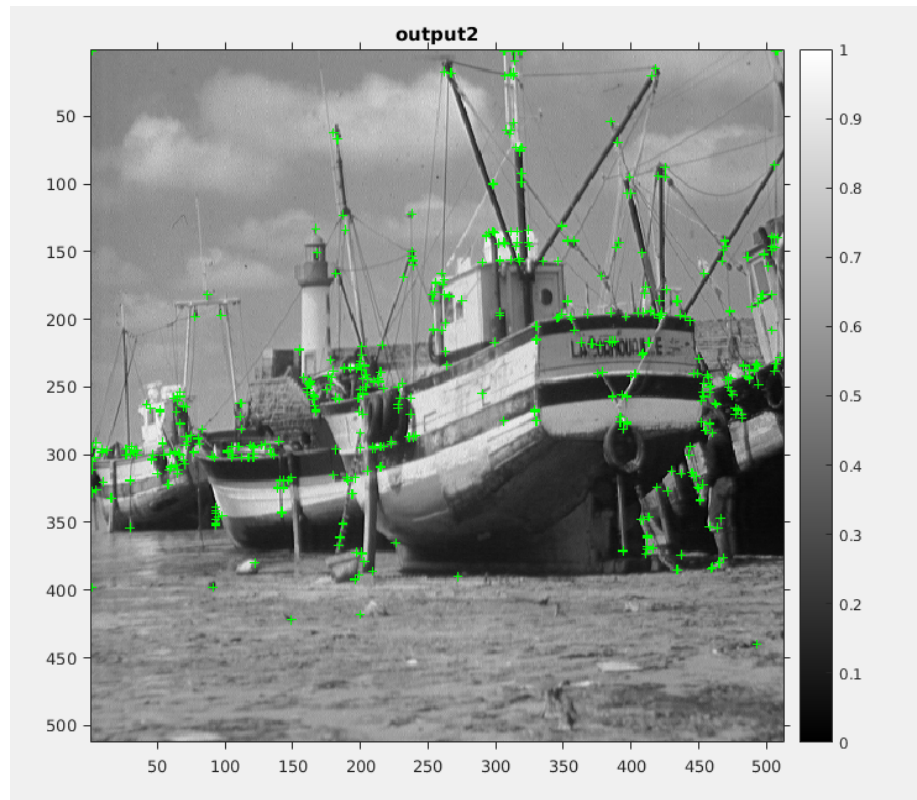


Figure 7: Final Output with Non-Maximal Suppression

Sigma in gaussian smoothing of input image = 0.2
Sigma in gaussian smoothing of images of derivatives = 0.5
K (constant in the measure of cornerness)= 0.15
We have thresholded the cornerness to 0.011