Assignment 3: Segmentation

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Q1: Harris Corner Detection
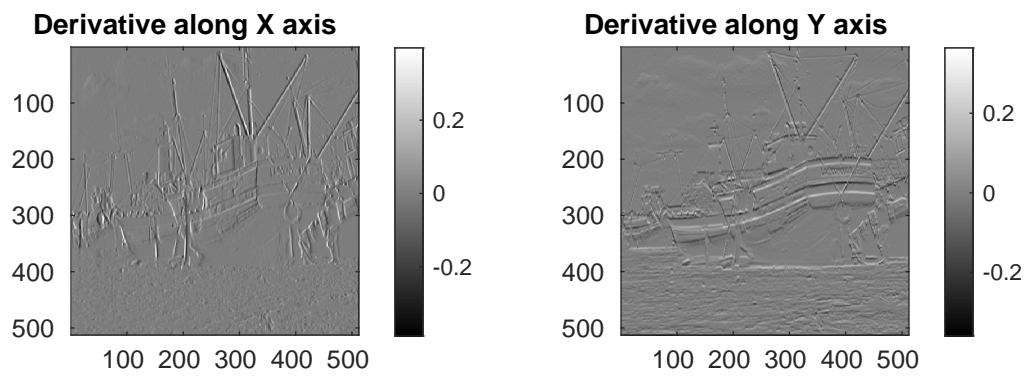
1. Images

Fig 1: Derivatives of boat.mat along X and Y axes

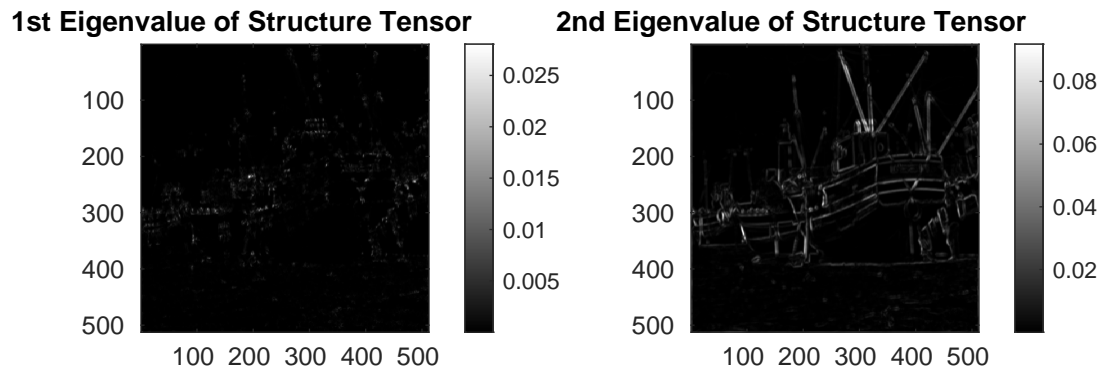**1st Eigenvalue of Structure Tensor**   **2nd Eigenvalue of Structure Tensor**

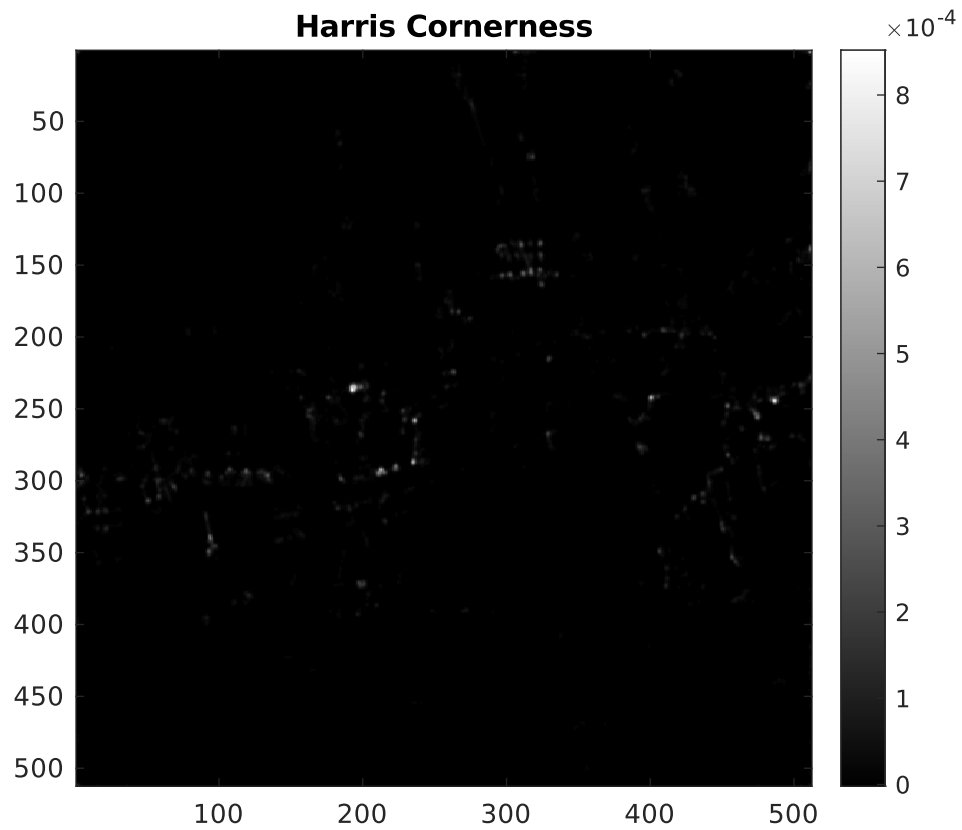Fig 2: Eigenvalues of Structure Tensor for boat.mat

Fig 3: Corners detected using Harris Corner Detection Algorithm

2. Parameters Used:

- Sigma for 1st Gaussian smoothing: 0.66667
- Sigma for 1st Gaussian smoothing: 1.2
- Constant 'k' in the cornerness measure: 0.001