

# Assignment 3

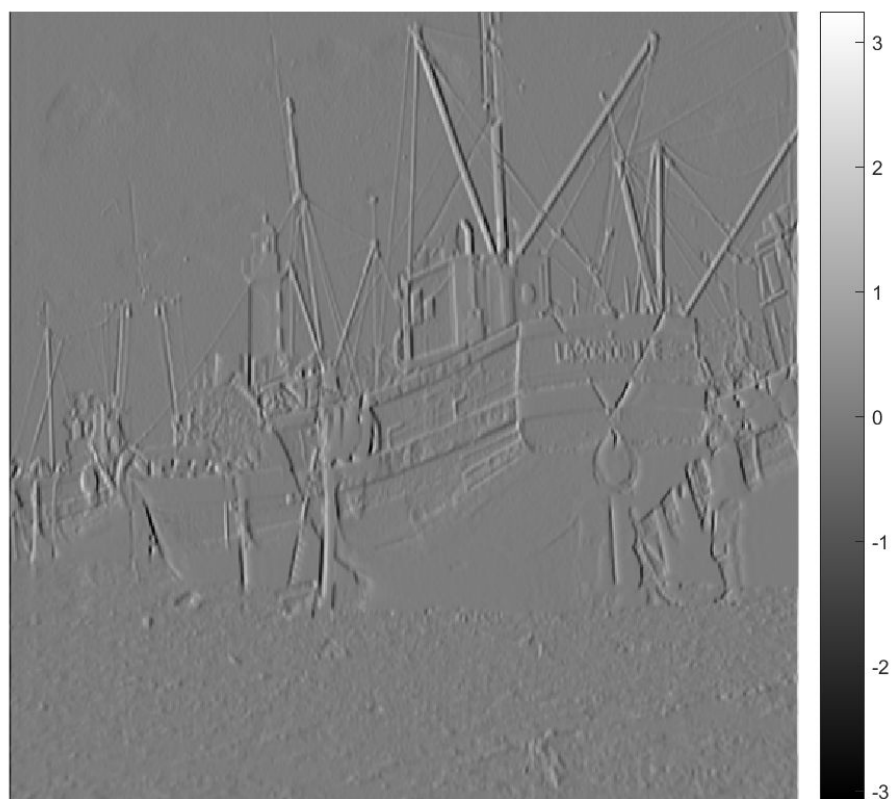
## Question 1

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**130050012 & 130070007**

Q1 .    Sigma 1 (for initial gaussian blurring) = 0.5  
          Sigma 2 (for calculation for tensor matrix) = 1  
          K (weightage difference of determinant and trace<sup>2</sup> ( $\det(A) - k \cdot \text{trace}(A) \cdot \text{trace}(A)$ )) =  
0.075



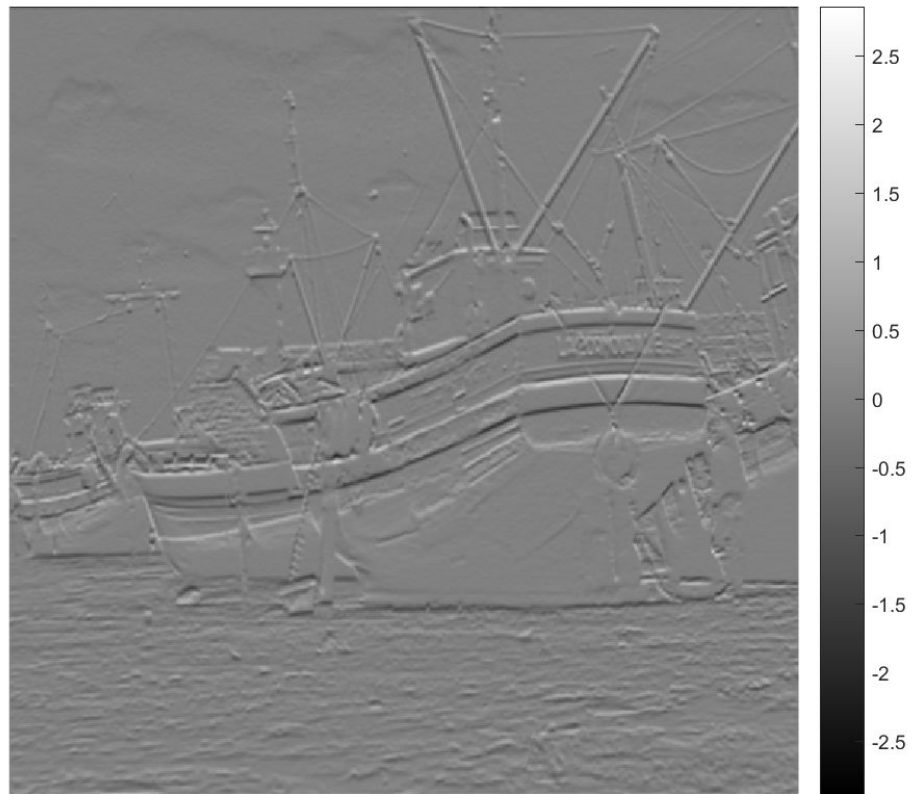
**Original Image**



**X Derivative with Sign**



**X Derivative (Magnitude Only)**



**Y Derivative with sign**



**Y Derivative Magnitude**



**Max Eigen Value**



**Min Eigen Value**



**Cornersness Measure**





**Original Image with Corner Markers  
(After Maximal Suppression)**