

Assignment # 3
Digital Image Processing
Gradient based Edge Detection
Submission Deadline: 31 Mar 2014

Gradient operators are used to detect edges from intensity images. Gradient magnitude and angle help in identifying edges of different magnitude and having different phases respectively.

Use Sobel horizontal and vertical operators to compute horizontal and vertical gradients of following image. Then compute gradient magnitude and phase from these gradients. You are required to extract edges from this image which have strongest gradient response and which lie in a particular range of phase.

