

ASSIGNMENT OF LAB 6 (PREPARE ANSWERS IN PPT)

LAB 6 (SPATIAL FILTERING USING MATLAB)

- 1) Implement spatial filtering program as follows.
 - Load the image data
 - Use a spatial filter to get the horizontal edge of the image.
 - Use a spatial filter to get the vertical edge of the image (read the MATLAB documentation on fspecial).
 - Add the horizontal edge matrix to the vertical edge matrix.

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- 2) What Is Image Filtering in the Spatial Domain?
- 3) Implement matlab programs of smoothing linear filters.(without using fspecial and imfilter function)
 - Average filter
 - Weighted average filter
- 4) Implement matlab programs of order-statistic (Nonlinear) filters. (without using fspecial and imfilter)
 - Median filter
 - Max filter
 - Min filter

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- 2) Implement matlab programs of Sharpening filters using following operators.
 - Laplacian operator
 - Sobel operator
 - Prewitt operator