CS 6643 Computer Vision

Project 1: Canny Edge Detector

Project Group:

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Code: Attached with file

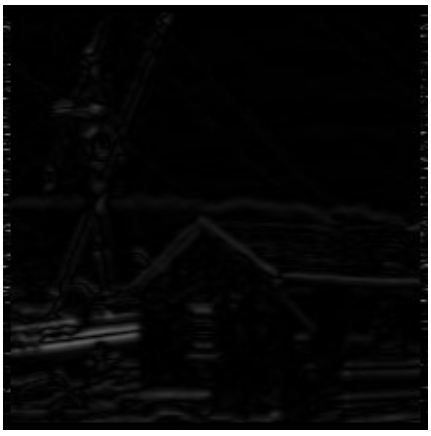
Outputs for Home.bmp

Home.bmp

Binary Output for Gaussian Image:

Binary Output for Gx:

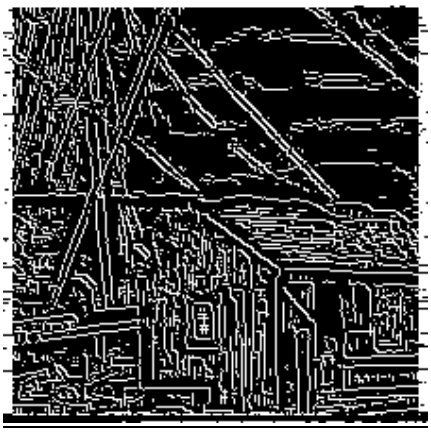
Binary Output for Gy:



Binary output for Gradient:

Binary Output for Non-Maxima Suppressed Image:

Binary output for Image Thresholded at 25%:

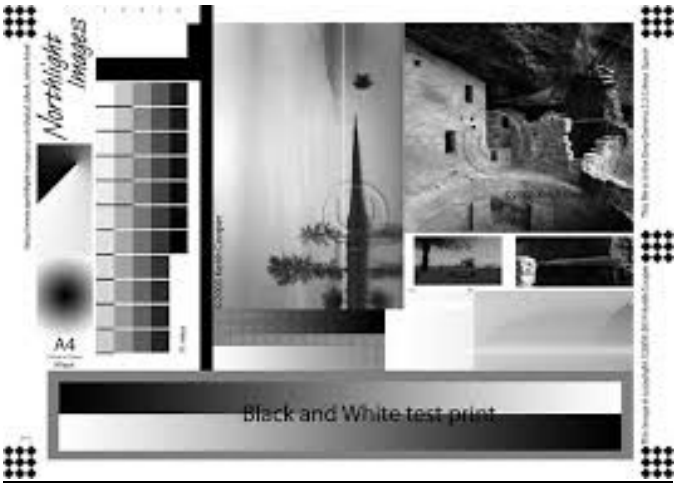


Binary output for Image Thresholded at 50%:

Binary output for Image Thresholded at 75%:

Outputs for Test Patterns.bmp:

Test Patterns.bmp



Binary Output for Gaussian Image:

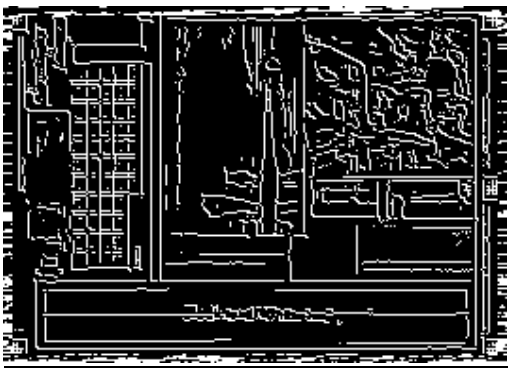
Binary Output for Gx of Image:

Binary Output for Gy of Image:

Binary Output for Gradient of Image:

Binary Output for Non-Maxima Supressed Image:

Binary Output for Image Thresholded at 25%:



Binary Output for Image Thresholded at 50%:

Binary Output for Image Thresholded at 75%:

Instructions:

1. The code for the Canny edge Detection is compiled with Google Collab, thus the images House.bmp and Test Patterns.bmp need to be uploaded at the upload button in the codes
2. Comments are writted within the program to illustrate each step
3. Each cell must be run individually and in order for the code to work.
4. Run the code for each image individually in order to verify results, else they will superimpose on one another.