Report Blatt 3

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1 Exercise 1 Edge Detection

1.1 Sobel Edge Detection

The sobel operator is a specific filter convolved with the Image. It is used to approximate the calculation of the gradient in x and y direction It is usually a 3x3 matrix with:

- 1.2 Canny Edge Detection
- 1.3 Comparison

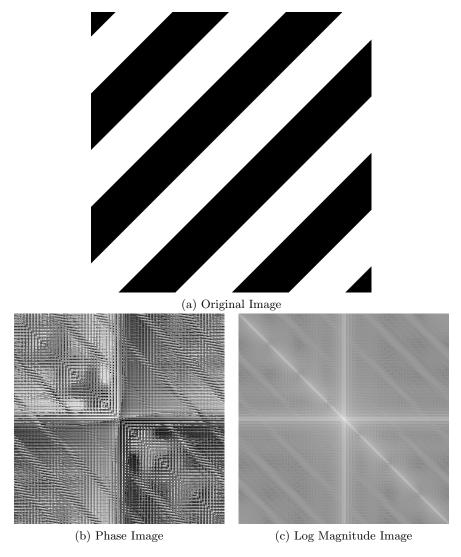


Figure 1: Fourier transformation of a stripe pattern.

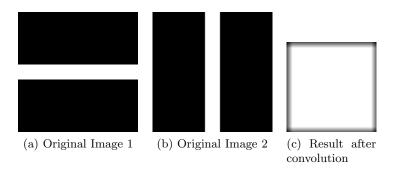


Figure 2: Spatial convolution of two images.

2 Excercise 2