

Abstract

An example of image pre-processing is edge detection. Aim of this process is to show an image's edges. The advantage of edge detection is for showing high frequency components. In other words, basic sketch of an object will be seen clearly with edge detection process. It has some methods which can be used. Edge detection method in this final assignment is Gabor Filters to find edges on sample image. This process analysis had done by using quantitative and qualitative test. Quantitative test is account error rate, false edge and missing edge which is connected with generating noise to sampling image at first. Therefore, qualitative test is using human visual. Gabor Filters is one of the right method for recognize object based on experiment. In spite of that the weakness in Gabor Filters are this method is very sensitive with noise and pixel point transition on image, based on qualitative testing and Error Rate value.

Keywords : *edge detection, Gabor Filters, error rate, false edge, missing edge, pixel*