

Abstract

Digital image is a form of information which presented into a visual form. As the time goes by, a digital image can experience quality's damage or degradation that caused by many factors, such as while doing a moving transmission of digital image from a device to another device. Image Enchanment's technique is a technique on processing image that can enhance or increase the image quality with certain methods. In this research, the method that used to do the image quality enhancement is Shock filter method. This method is more focus on the side of image which is the most important part to decide a border line of an area or object that is on the image. In Shock filter method, there are two side image detection operators. Operator that used is gradient operator and laplace operator which are hopefully can confirm blur image especially on the side image. To anticipate the appearance of noise in the image, it has been given a solution of Gaussian filter function that could muffled the appearance of the noise on each transcription that has been done. Of the total eight image the results, image in iteration to 15 by processing added a filter gaussian most likely image tested (image original) because the value of PSNR who receive is 19.6431 and this value is of the most bigger among the other. This proved that the image of the image processing is most closely resembled the image of being tested (original image).

Keywords: *blur, noise, edge detection, digital image, image processing, gradient, laplace, gaussian.*