

ABSTRACT

Problems in the photography at the most frequently met is the blur effect that occurs when you take a picture. This blur effect on two categories, namely the blur caused by camera less focus at the time of taking images (Gaussian), and blur caused by movement of objects or camera motion associated with the speed of the camera (Shutter Speed) at the time of shooting (Motion).

At the project will be discussed how the process detection to improving the quality of the image blur effects that occur locally in an image, so the image can be produced better quality. By doing detection on characteristic blur that occurs on a image, the parameters that can be used as reference to make deblurring can be found. To use the *Discrete Cosine Transform* (DCT) to detect the image of the effect. Meanwhile, in the process deblurring Pixel correlation method used to find the angle and movement to movement estimation and pixel repair the image of the motion blur effect.

Average value JPEG Quality, SSIM and UQI detection method that uses local blur better level of quality compared to the process without detection blur on the condition of local standard deviation of 25 and block size of 32x32 pixels. Where is the SSIM and UQI performance results show that detection will be enhanced with the methods of assessment of JPEG Quality.

Keywords: Blur Detection, Motion Blur Local, Deblurring, Discrete Cosine Transform, Pixel Correlation.