

Abstract

The Digital Camera has a lack to get an image that has wide angle of view. Image that has wide angle of view is called panoramic image. In order to get a panoramic image, need a system capable to combining several images into an image entity is called image mosaic.

Method is used in the process of image mosaic is Phase Correlation Algorithm, this method is used to get translation value that will be used stitch image. In addition, this method is not sensitive to noise, and can reduce influence distortion on matching properties. System testing is done by separating the image into 2-4 pieces image as image input, then image input blended by system. Besides being able to combine the images are sequential, with the calculation of correlation the system can sort the images with random input to establish image panorama.

In experiments conducted, panoramic image that produced by system is good because average correlation value 0.99264 and MOS value 4,66. In addition testing the image results, Method that is used the system is tested and the result the matrix is fixed although image change value intensity and add noise in image.

Keyword : Image Panorama, Image mosaic, Phase Correlation, Image Correlation.