ABSTRACT

With the popularity of digital cameras, digital photo processing has become increasingly important. One of the most universal problems in digital photography is out of focus which causes blurry images. One of the popular deconvolution algorithms in solving convolutional cases is the Lucy Richardson algorithm. This research will implement the Lucy Richardson algorithm for noise removal and image restoration. Lucy Richardson can recover images from a blurry image, but there are artifacts that exist in the blurry image. The deblurring process in iterations 1, 20, 40 shows that the Lucy Richardson filter can produce blurry images in iteration 1, but better performance will be obtained when the number of iterations is about 40 times.

Keyword : Image restoration; Lucy – Richardson Algorithm Techniques; Blur.