ABSTRACT

Image segmentation is a process of dividing an image into different regions such that each region is homogeneous of characteristic. Lot of method used for image segmentation process which is a part from image processing. One of method is histogram thresholding, which is assumes that images are composed of regions with different gray ranges, and separates it into a number of peaks, each corresponding to one region.

In this final assignment entitling *Analisis dan Implementasi Teknik Histogram Thresholding berbasis Fuzzy pada Proses Segmentasi Citra Multimodal*, I will use an approach to threshold the histogram according to the similarity between *gray level*s. Such a similarity is assessed through a fuzzy measure. From the test result, it is concluded that the method can find the threshold multimodal image histogram maximally as expected. This method also have noise endurance pretty well in some condition and also have low error level compared with segmentation method based on region like region growing.

Keywords : Fuzzy Measures, Fuzzy Sets, Histogram Thresholding, Image Segmentation