ABSTRACT

Cloud feature classification on image processing has many efforts on weather forecast. There are many features that had been classified by previous researcher, such as cirrus cloud feature, cirrocumulus, cirrostratus and clear sky. For clear sky feature, it looked the cloud feature invisible so the sky is clearly blue. And then, for cirrocumulus feature, it looked the cloud feature piled up and curved on blue sky. For cirrostratus, it looked the sky is dark and the cloud feature has curved feature then indicate as it will be raining or storm and the last is cirrus feature, it looked the texture of cloud is soft and long on blue sky.

On this final assignment had been done the research and analysis using feature extraction GLCM (Gray Level Co-occurance Matrix) to analyze the image on cloud image which will be an input for classification using fuzzy logic.

The result of this final assignment obtained the average of accuration on image testing for cloud feature is 64% with the average of time consumption is 0.49 second and the best accuration on cloud feature image is on cirrocumulus that is 80% with time consumption is 0.52 second.

Keyword: GLCM, Cloud image,, Fuzzy Logic.