ABSTRACT

Batik Bojonegoro is one of art in Bojonegoro's culture. There are some types of Batik Bojonegoro, this to differentiate batik ojonegoro is done system design to classify the type of batik into the classes of types batik motifs. The design of the system conducted for detecting batik Bojonegoro using Gray Level Co-Occurrence (GLCM) method is used as the extraction in process of taking main image and Naive Bayes as a classification of grouping the images based on the types of batik Bojonegoro.

Working process of both methods is need many image samples to make the system works well using image processing so that image can be converted into data in the form of numbers with the output of transformation result in digital image process. This project has merged both methods to know the significant accuracy result is the purpose of facilitate the introduction of the types of batik Bojonegoro and developing system in detecting digital image using batik's image based on the type of batik Bojonegoro's pattern.

Based on the tests that have been done, so that in this Final Project the system design can detect Bojonegoro batik based on the type of batik motivo class, namely six classes of batik motif types, with batik composition meliwis mukti, pari sumilak batik type, rancak thengul batik type, sato gondo batik type fragrant and kind of teak teak batik. Testing was carried out 60 images of batik where each class had six images of batik. So that obtained from several Parathmetro scenarios the order testing is two best correlación namely, homogeneidad and entropy, degree direction = 0° and pixel distance (d) = 2 with nivel quantization testing so the best accuracy is 85% with 206.6715 seconds computation time.

Keywords: *Batik Bojonegoro, GLCM, Naive Bayes.*