**ABSTRACT** 

Songket is a type of woven fabric derived from Malay and Minangkabau in Brunei

Darussalam, Indonesia, and Malaysia. Songket has a wide variety of motif on each of the

regions varies. On this final assignment done identification of types of motif fabric that comes

from one of the areas in Indonesia namely Palembang. The system of classification songket is

expected to help the layman to distinguish a Palembang songket with each other.

In this final task is discussed regarding techniques for classifying motifs songket by using

digital image processing. Charactericstic extraction method used is statistics and color

histograms. The classification method used is K-Nearest Neighbor (K-NN). There are four

main steps in processing such as image acquisition, preprocessing, feature extraction, and

classification. The test is done by taking 270 songket samples with each class composition have

20 test images and 10 train images.

Parameter that measured in this final project are accuracy rate and computational time.

*In this final project, found out that the result has 100% accuration and 0.83s computation time* 

using color histogram with parameters of quantization = 8, the value of k=1, and the type of

Cityblock.

**Keywords:** Songket, Color Histogram, K-Nearest Neighbor (K-NN), Cityblock