

ABSTRACT

Indonesia is an archipelagic country with various cultures. One of the results of Indonesian culture is traditional clothing in West Java. Loving culture is tantamount to loving the motherland. Therefore, by instilling a sense of love for culture, of course, it also indirectly fosters a sense of love for the motherland within us. Traditional clothing is an element of culture and is one of the wealth of Indonesia's homeland. Along with the times, traditional clothes in West Java are very diverse and have many similarities between regions. This makes it difficult to distinguish between these traditional clothes.

Therefore, an automatic recognition system for traditional clothing was created in West Java. One method of object recognition that has good performance. Therefore, this final project was created to classify, namely the Convolutional Neural Network (CNN) method. What resulted from the work on this Final Project is a system for recognizing traditional clothing in West Java consisting of Pangsi, Mojang Jajaka, Menak, and wedding dresses. The recognition system for traditional clothing in West Java uses the CNN method with the MobileNetV2 architecture.

The MobileNetV2 architecture uses two new types of features, namely residuals and inear bottlenecks. The Convolutional Layer on MobileNetV2 uses a filter thickness that matches the thickness of the input image. The results of this implementation aim to classify traditional clothing in West Java which consists of 4 classes of traditional clothing namely Pangsi, Mojang Jajaka, Wedding Dress and Menak. In the dataset training, there are 3 trainings, namely training, validation and testing using Optimizers Adam. The system test results for the classification of West Java traditional clothing which consists of 4 classes with epoch 10-100 produce different accuracy values.

Keywords: *west java traditional clothing, cnn, classification, accuracy, mobileNetV2*