

Abstract

Javanese script is one of many heritages of Javanese tribe, which in need to be preserved. With how unique its style and how each word has different meaning, to understand Javanese script means the need of learning the script or simply is a native that has frequently read the script. Current technology makes it possible to increase awareness and make easier access to learn the culture. This research has built a system which managed to recognize handwritten Javanese script images that were drawn in papers. *Convolutional Neural Network* algorithm is the basis of the system, which managed to recognize the script without any extra feature extraction method. The performance of model of the CNN is around 95,35%. The classification result of test data yields around 73% which shows how CNN is capable of recognizing most of handwritten Javanese script.

Keywords: *Convolutional Neural Network*, character recognition, Javanese script