

ABSTRACT

Face recognition is a field that is still being researched and developed. Artificial neural networks (ANN) Convolutional Neural Network is a method that is very often used in facial recognition system. Convolutional Neural Network is a method of learning supervised (supervised learning) commonly used, so it is appropriate for use in facial recognition applications. In this application is done image processing to the image input before the image is processed in artificial neural network using method of Convolutional Neural Network.

This research uses Convolutional Neural Network method, on face recognition. In order to obtain, deficiencies, and advantages of the method used, the method for use in facial recognition systems. (Face Recognition). This research can be analyzed, that is accuracy in each learning rate and get result. Accuracy factor is obtained from how exactly the method of recognizing the person's name of the face image

In the face recognition system with the Convolutional Neural Network (CNN), it is expected to have analytical results that point to increased accuracy. That's because the network structure of the Convolutional Neural Network itself is the optimization of the Backpropagation method. With the specific role of convolutional neural network methods that are already specified to solve the problem of image recognition.

Keywords — Artificial Intelligence, Face Recognition, Convolution Neural Network, Neural Network