ABSTRACT

Face recognition is a field that is still being researched and developed, The problem in face recognition is to find the best fit with an unknown image. Artificial artificial methods, especially artificial neural networks (ANN) Backpropagation is a method used for face recognition applications. Backpropagation method is a commonly used supervised learning method, 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 Backpropagation method.

This research uses Backpropagation 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 Backpropagation Neural Network has the analysis results that point to the increasing accuracy and specific roles. Advantages of Implementation of Backpropagation algorithm on image compression system that convergence time for Neural Network training using Backpropagation method is very fast

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