Abstract

Important scripts in history, coorporate confidential doccuments, sciencetific paper and other similar things were easily deteorated. This facts encouraged individuals and institution tried to retype the scripts by using computer . but this would not be efficient if they were typed one by one.Therefore a technology of hand writing recognition is absolutely needed. One of the algorithm which could learn and recognize hand writing well was artificial neural network (ANN). One of the ann model which could store some information about data pattern in network structure was recurrent neural network (RNN)

In this final project a system which can recognize hand writing was developed using RNN. The more optimum RNN structure is developed , the better performance of the RNN will be. To find an optimum RNN structure, genetical algorithm was used.

The result of searching optimum structure in RNN using genetical algorithm, showed that RNN had the ability to recognize hand writing of a set of test data by 67,69 % acuuracy.

Keywords: Handwriting Character Recognition, Artificial Neural Network, Recurrent Neural Network, Genetic Algorithm.