

Abstract

Encryption is one of method to keep or protect data. The secret of an encrypted data will be kept which the other people could not read that data. Content of data is changed so that there is no suitable content with truly data. To make data readable, we have to make a decryption method.

This final assignment have been implemented an encryption and decryption system with Plato Artificial Neural Network. Encryption and decryption can be done by Plato Artificial Neural Network. The data trains one time in Plato Artificial Neural Network, so that Plato Artificial Neural Network is called one time training algorithm. The data train which used is words. The word must have input words and target words. All of word must be trained. If any untrained word is found, the result of decryption is not suitable to the original file. The untrained words are known as the trained former words.

Encryption and decryption time in the Plato algorithm is influenced by sum of words. The more sum of words have found in encryption and decryption process, the more time is needed to process. In contrary, the less sum of words have found, the less time is needed to process them. The encryption n decryption time is not influenced by untrained words, punctuation, and foreign words.

Keyword : *Encryption, Decryption, Artificial Neural Network, Plato Algorithm*