
ABSTRACT

In this final project, artificial neural network performance analysis will be studied before and after pruning execution for data mining classification. The method that will be used for decide the link cutting is Optimal Brain Surgeon (OBS).

ANN architecture that will be used in this final project is backpropagation (BP). After prune the link, we can compare the ANN performance before and after pruning execution, as it's observed from the training time, processing time,the number of link , the number of node, and accuracy.

From the research has been done, the classification accuracy by pruned ANN can decline until 84.7222 %. The retraining was not guarantee the increasing of ANN accuracy, moreover it's possible decline the accuracy.

Keyword : Classification, Artificial Neural Network (ANN), Pruning, Optimal Brain Surgeon (OBS)