

Abstract

Prediction method is worldwide used in business and trade, it is aimed at giving a brief description or prediction in the future. In this final paper, the writer is implementing " Implementation Backpropagation Neural Networks to Predict the Selling Prices Crude Palm Oil (CPO). JST Backpropagation is one of method than can be well implement in predicting price. Whereas, in the study case, it in included into one of learning method through supervised learning with two calculation steps, they are, forward calculation (to account the error between output and target) and review calculation (repair weigh in all neurons). Data that being used in price prediction of CPO are in form of time series in period January 1999 to October 2009. It is divided into two terms, data of trainee and data of examination. Data of trainee is used in examination process to produce a well network of architecture. While, data of examination and network design that produced from the trainee, is used in processing of examination until attained a well accurateness of examination. However, it is also used data of CPO sale price of competitor in order to view the effect of competitor's oil sale price into the sale price of CPO. The writer expect that time series data and backpropagation can give a well and accurate prediction of the sale price of CPO.

Keyword: *backpropagation, prediction and gradient descent with adaptive learning rate.*