Abstract

On this final project, made forecasting currency exchange rates by using conjugate gradient Fletcher-Reeves method. Forecasting is an activity for estimate a value in the future by using past data. Past data used in forecasting currency exchange rates this form of time series and were collected from 1998 until 2002. Time series data collected was divided into two: training data and test data. Training data used in the process of training to produce a network of good architecture and knowledge. Test data, network architecture and knowledge results of the training process is used to test the process to produce a test results with a good level of accuracy. CGF method is used as the main engine in the system of forecasting currency exchange rates. CGF method is one method of conjugate gradient algorithm to perform faster training because of use the steepest descent direction and also use numerical optimization. It is expected that with time series data collected and with CGF method as the main engine can produce a system of forecasting currency exchange rates that can predict a value for one day in the future with a good accuracy.

Keywords*: forecasting, exchange rate currency, and conjugate gradient fletcher-reeves.*