ABSTRACT

The process of buying and selling transactions between countries often have problems on payment because of the differences current dollar value in each country. The exchange rate can change any time according to the market mechanism, therefore currency exchange predictions is required to determine future economic policy.

To cope this case, a forecasting method is required. In this case, the method is the combination of the ARIMA (Autoregressive Integrated Moving Average) and ANN (Artificial Neural Network), each method has its advantages. ARIMA is used to model the linear time series, while the ANN is used to solve nonlinear time series.

Historical data which is used for forecasting is the data rate of IDR to USD within the period January 2009 - December 2013. Having made predictions, so it can be concluded that hybrid ARIMA and ANN method could applied in forecasting IDR to USD.

Keywords: ARIMA, ANN, Hybrid ARIMA and ANN