ABSTRACT

In doing a network invesment phone, PT. Telkom need the knowledge about the subscribers telephone pulse usage. To do telephone pulse usage forecasting in PT. Telkom, in this final duty a backpropagation ANN (Artificial Neural Network) is used to do the forecasting. The main advantage of ANN is the parallel computation ability by learning from the patternsthat had been taught.

After getting the result of the telephone pulse usage forecasting, an invesment analysis will bw conduct. NPV, IRR, and PBP are the methods used to do invesment assessment.

From the research that has been done, ANN forecasting reached 88,20%. Measurement process of invesment elegibility analyse is very dependent to the ANN forecasting accuracy.

Keyword : forecasting pulse, artificial neural network backpropagation, NPV, IRR, PBP.