

## CHAPTER 6

### CONCLUSION

#### 6.1 Conclusion

Neural network is one of the most popular algorithms today. One of the methods of a neural network is called Backpropagation. Backpropagation algorithm is able to analyze a pattern and provide predictions. Backpropagation consists of input layer, hidden layer and output layer. The composition of the number for that layer does not have a benchmark. It is necessary to try each combination in order to produce good predictions.

This research aim to know which number of hidden layer cell give the most accurate prediction. The composition of hidden layer cell numbers is 2, 4, 6 and 8 cell. Examples of cases used are predicting stock prices. Stock prediction is done using past data

The results of this study found that the predicted results of all cell numbers have accuracy above 99%. Each cell number on the hidden layer provides good results in calculating stock price predictions.

In this study concluded that the variation of cell number in hidden layer does not affect the prediction result. The difference accuracy of 2, 4, 6 and 8 cell in predicting stock price does not reach 1% so it can be concluded influential.

## 6.2 Further Research

This study predicts stock prices using past data. Stock prices tend to have regular and steady movements resulting in accurate prediction results. In this study does not use data that having unstable movement. In this study do not use data that form is not stable. The good results in this study is not necessarily the same when using other data.

For future research is expected to use data other than stock price, so it can be investigate more about the accuracy of the neural network Backpropagation algorithm with different cell number in hidden layer.

