

## **Abstract**

*Stock Index Futures is an index that contains of chosen stocks registered on a market calculated based on Market Capitalization or Price Weighted. This index has a function as an indicator or barometer of general economic health of a nation. Therefore, that index based measured contract allows investor to buy/ sell a measured fixed contract of that index with current price for future date of payment.*

*Method that is used in this final project is Backpropagation Bayesian Regularization method to model JST architecture, which will be used to predict stock value on a period of time.*

*Data that will be used in training, testing and predicting is Dow-Jones Industrial Average (DJIA) closing values from 1900 to 1993.*

*The result of the testing is that JST Backpropagation Bayesian Regularization architecture model is more accurate and faster than JST Backpropagation Adaptive Learning Rate architecture model.*

**Key Word** : *training, testing, predicting, Backpropagation Bayesian Regularization, Backpropagation Adaptive Learning Rate, Learning rate, Levenberg-Marquardt (MU).*