Abstract

Prediction of stock market return is an important issue in finance. Fuzzy and Artificial neural networks have been used in stock market prediction during the last decade. Studies were performed for the forecast of stock index values as well as daily direction of change in the index. This work compares fuzzy and arrangement of ANN model and makes these models to train with the past 5 years stock price datasets of various companies like (TCS, HCL) and the prediction of future stock price of company has been found. Membership functions (LOW, MEDIUM, HIGH) based fuzzy model will give recommendation for investor which says the current situation of the stock market. The Root Mean Square error (RMSE), Mean Absolute Performance (MAPE) metrics calculates the error rate value of each model. The proposed Hybrid Network model has expecting to given high performance.

References

- Chakravarty S, and Dash P. K., "Forecasting Stock Market Indices Using Hybrid
- Chakravarty S, Mohapatra P and Dash P. K., &quot;Stock Market Prediction using Dynamic Filter Weights Neural Network and Particle Swarm;&quot; IEEE, IIT, Khargpur 2008.
- Chen Yuehui, Dong Xiaohui, Zhao Yaou: &quot;Stock Index Modelling using EDA based Local Linear Wavelet Network;&quot; IEEE. 2005.
- Chodhury Rohit & Garg Kumkum, &quot;A Hybrid Machine Learning System for Stock Market Forecasting;&quot; Proceeding of World 2009.

Index Terms

Computer Science

Neural Networks

Keywords

Fuzzy ANN RMSE MAPE Index Datasets