An Artificial Intelligence ATM forecasting system for Hybrid Neural Networks

International Journal of Computer Applications, Foundation of Computer Science (FCS), NY, USA

Volume 133
Number 3

Year of Publication: 2016

Authors:
Renu Bhandari, Jasmeen Gill

10.5120/ijca2016907770

Abstract

Automatic teller machine (ATM) is one of the most popular banking facilities to do daily financial transactions. People use ATM services to pay bills, transfer funds and withdraw cash. Accurate ATM forecasting for the future is one of the most important attributes to forecast because business sector, daily needs of people are highly largely dependent on this. In recent years, Neural Networks have become increasingly popular in finance for tasks such as pattern recognition, classification and time series forecasting. Every financial institution (large or small) faces the same daily challenge. While it would be devastating to run out of cash, it is important to keep cash at the right levels to meet customer demand. In such case, it becomes very necessary to have a forecasting system in order to get a clear picture of demand well in advance. In this research article an integrated BP/GA technique is proposed for accurate ATM forecasting. The results are very encouraging. The comparison of proposed technique with the previous one clarifies that the proposed model outperforms the previous models.

References
An Artificial Intelligence ATM forecasting system for Hybrid Neural Networks


Index Terms

Computer Science Networks
Keywords

ATM Forecasting, ANN, Back propagation Algorithm, Genetic Algorithms, Hybrid Techniques.