Abstract

In this paper we empirically investigate various sizes of training sets with the aim of determining the optimum training set size for generalization ability of an ANN trained on forecasting TCP/IP network traffic trends. We found from both the simulation experiments and literature that the best training set size can be obtained by selecting training samples randomly, between the interval 5×N_W and 10×N_W in number, depending on the difficulty of the problem under consideration.

References

- E. Richards, “Generalization in Neural Networks, Experiments in Speech...
Training Set Size for Generalization Ability of Artificial Neural Networks in Forecasting TCP/IP Traffic Trends

Reference:

Index Terms
Computer Science
Networks

Keywords
Generalization ability, Artificial Neural Networks and Training set size.