Abstract

The issue of obtaining reliable forecasting methods for electricity consumption has been widely discussed by past research work. This is due to the increased demand for electricity and as a result, the development of efficient pricing models. Several techniques have been used in past research for forecasting electricity consumption. This includes the use of forecasting, time-series technique (FTST) and artificial neural networks (ANN). This paper introduces a modified Newton's model (MNM) to forecast electricity consumption. Forecasting models are developed from historical data and predictive estimates are obtained. This research work utilizes data from Universiti Malaysia Sarawak, a public university in Malaysia, from 2009 to 2012. The variables considered in this research include electricity consumption for different months over the years.
A Comparative Analysis of Techniques for Forecasting Electricity Consumption


Index Terms

Computer Science

Artificial Intelligence
**Keywords**

Electricity consumption  electricity forecasting  time-series  artificial neural networks  modified Newton's method  historical data.