Abstract

Load forecasting is the prediction of future loads of a power system. It is an important component for power system energy management. Precise load forecasting helps to make unit commitment decisions, reduce spinning reserve capacity and schedule device maintenance plan properly. Besides playing a key role in reducing the generation cost, it is also essential to
the reliability of power systems. By forecasting, experts can have an idea of the loads in the future and accordingly can make vital decisions for the system. This work presents a study of short-term hourly load forecasting using different types of Artificial Neural Networks.

Reference

Artificial Neural Network based Short Term Load Forecasting of Power System

- George I Evers, “An automatic regrouping mechanism to deal with stagnation in particle swarm optimization”, Graduate thesis for the degree of Master of Science, University of Texas-Pan American, pp. 35-40, 2009.

Index Terms

Computer Science  Artificial Intelligence

Key words

Load Forecasting  Power System  Particle
Swarm Optimization