Rainfall Prediction using Data Mining Techniques

Volume 83 - Number 8

Year of Publication: 2013

Authors:
Jyothis Joseph
Ratheesh T K

Abstract

Rainfall becomes a significant factor in agricultural countries like India. Rainfall prediction has become one of the most scientifically and technologically challenging problems in the world. A wide variety of rainfall forecast methods are available. There are mainly two approaches to predict rainfall. They are Empirical method and dynamical method. The empirical approach is based on analysis of historical data of the rainfall and its relationship to a variety of atmospheric and oceanic variables over different parts of the world. The most widely used empirical approaches used for climate prediction are regression, artificial neural network, fuzzy logic and group method of data handling. This paper uses data mining techniques such as clustering and classification techniques for rainfall prediction.

References

- Jasmeen Gill, Baljeet Singh and Shaminder Singh, &quot;Training Back Propagation
Neural Networks with Genetic Algorithm for Weather Forecasting"; IEEE 8th International symposium on intelligent systems and informatics Serbia, 2010.


- Khaled Hammouda, Prof. Fakhreddine Karray, A Comparative Study of Data Clustering Techniques; SYDE 625: Tools of Intelligent Systems Design. Course Project.

**Index Terms**

Computer Science  Artificial Intelligence

**Keywords**

Data Mining  Clustering  Classification  Artificial Neural Network