

FORECASTING SUMMER RAINFALL OVER PUNE METEOROLOGICAL STATION AREA: A NEURAL NETWORK APPROACH

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Abstract

The rainfall forecasting is the use of a model to forecast future events based on known past events, to forecast future data points before they are measured. The rainfall is a sequence of data points, measured typically at successive times, spaced at often uniform time intervals. Human beings always keep the rainfall forecasting by various methods all over the world. Neural networks are applicable in virtually every situation in which a relationship between the predictor variables and predicted variables exists, even when that relationship is very complex and not easy to articulate in the usual terms of correlations or differences between groups. This work is an attempt to determine the best learning rule and activation function for the rainfall forecasting using radial basis function.

Keywords: Conjugate Gradient, forecasting, RBF, Levenberg Marquardt, Quickprop