

Abstract

Rainfall is the amount of water that falls on a flat surface for a certain period, as measured by units of height (mm) above the horizontal surface. Rainfall is expressed in millimeters (mm) or inches.

Prediction is a process of systematic estimates about what most likely happened in the future based on past information and current information. One method to do the prediction is to use an artificial neural network (ANN). In this final application has been applied rainfall prediction using neural networks by using recurrent neural network. Rainfall values predicted from the values of rainfall a few days earlier.

Recurrent Neural Networks architecture is the architecture used by Elman Recurrent Neural Network and Jordan Recurrent Neural Network. From the test results obtained in this thesis are several factors that affect the accuracy of the prediction results, including the input layer, hidden layer, learning rate, momentum and epoch.

Keyword : prediction, rainfall, recurrent neural network. elman, jordan.