Abstract

In this paper, the artificial neural networks are implemented to accomplish the English alphabet speech recognition. The design an accurate and effective speech recognition system is a challenging task in the area of speech recognition. We implemented a new data classification method, where we use neural networks, which are trained and performance can be defined on the basis of recognition rate. This method gave comparable result to the already implemented neural networks. In this paper, Back propagation neural network architecture used to recognize the time varying input data, and provides better accurate results for the English Alphabet speech recognition. The Epochwise Back Propagation through time (BPTT) algorithm uses the epoch values of input signal to train the network structures and yields the satisfactory results.

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Index Terms

Computer Science Algorithms

Keywords

Neural Network Back Propagation Neural Network Epoch Speech Recognition.