Abstract

In this paper, an attempt is made to study speech recognition system with classifiers Self Organized Maps, Multilayer Perceptron, Radial Basis Function neural networks, Modular neural network, Time Lagged neural network and to develop SOM based speech recognition system. The training parameters varies as the classifier varies. In this paper a novel SOM - based speech recognition system is developed to find the nearest neighbour classification by using Euclidean and weighted Euclidean weighted distances. In order to find out the outlier of the speakers, Nearest neighbour classification by using Euclidean and Weighted Euclidean distances are developed. The promising results are obtained with good degree of accuracy.
Reference

4. Speech recognition Applications by Steve Green Dec 05/Jan 06.

Index Terms

Computer Science Communications

Key words

Pitch
Intensity
Mel-frequency cepstral coefficient
Linear predictive coefficient
Recognition rate