Implementation of Word Level Speech Recognition System for Punjabi Language

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Abstract

In this paper the implementation of the word level speech recognition system for Punjabi language is explained because it is a highly prosodic language. Here HTK Toolkit along with Julius Toolkit is used. First step is data collection and two hours data is collected in read speech mode. Second step is data preparation, in which hmmlist, grammar and dictionary files are created. Once the data is prepared, 75% and 25% of data is used for training and testing respectively. The experimental results show that the accuracy of the system comes out to be 57.54%

References


Index Terms

Computer Science

Pattern Recognition
Keywords

Automatic Speech Recognition (ASR), Hidden Markov Toolkit (HTK), Julius, Punjabi