Abstract

Nowadays, Spoken digit recognition is one the challenging task in the field of speech recognition. Spoken digit recognition is necessary nowadays in many applications that needed number as input like telephone dialing using speech, addresses, airline reservation & automatic directory to retrieve & send information which make the system more efficient to use. Also, It proves very helpful for physically challenged people in hands & eyes free applications. Various techniques are used for isolated speech recognition like MFCC, HMM, LPC. But among all of them many researchers found that MFCC is widely used & give a more accurate result. ASR achieves a maturity level in many Indian languages. Mostly research work has been carried out. Here in this paper, Discussions of the survey is on some of that recent research work in isolated digit recognition for the Indian languages like English, Gujarati, and Hindi & also in other similar languages. Likewise, discussing different approaches, methods & comparative analysis about recent research work done in isolated digit & word recognition in various languages.

2. Singhal Shweta, Dubey Rajesh Kumar, “Automatic Speech Recognition For Connected Words Using DTW/HMM For English /Hindi Languages ”, IEEE 2015


17. Londhe, Narendra D, “Hybrid HMM/ANN Based Isolated Hindi Word Recognition”, IEEE,2014, ISSUE1


A Survey on Isolated Word and Digit Recognition using Different Techniques

(11-13)


34. Gattal, Abdeljalil , Chibani, Youcef , Jedi, Chawki, Siddiqi, Imran , “Improving Isolated Digit Recognition Using a Combination of Multiple Features”, IEEE, 2014


A Survey on Isolated Word and Digit Recognition using Different Techniques


Index Terms

- Computer Science
- Pattern Recognition

Keywords

Speech Recognition, MFCC, Hidden Markov Model (HMM), LPC, Isolated word, isolated digit recognition.