Abstract

Speech Recognition is the process of converting an acoustic waveform into text containing the similar information conveyed by speaker. This paper presents a report on an Automatic Speech Recognition System (ASR) for different languages under different accents. The paper describes the methods used and comparative study of the performance of every system so far developed. The study shows that Hidden Markov Model (HMM) as classifier and Mel Frequency Cepstral Coefficients (MFCC) as speech features are the most common technique used. Moreover, ASR implemented by using Hidden Markov Tool Kit (HTK) are more efficient than the other systems implemented by using other tools.

References

A Survey Report on Speech Recognition System

- Elitza Ivanova et al., "Recognizing American and Chinese Spoken English Using Supervised Learning."

**Index Terms**

- Computer Science
- Speech Processing

**Keywords**

- Hidden Markov Model (HMM)
- MFCC
- Different Language Accent
- Hidden Markov Tool kit (HTK)