Abstract

In this paper, have implemented the isolated digit recognition in Kannada language using Hidden Markov Model Toolkit (HTK). Hidden Markov models used as pattern recognizer with the help of MFCC as a featured vector of the wave samples. The paper focuses on all isolated digits of Kannada i.e. Sonne to Ommbattu (0 to 9), The system helps in interaction of rural people and the computer or any system. The system data structure is defined at word level and its performance is evaluated.

References


5. Keh-Yih Su et al., Speech Recognition using weighted HMM and subspace IEEE Transactions on Audio, Speech and Language.

Index Terms

Computer Science
Signal Processing
Keywords

Automatic Speech Recognition (ASR), Mel frequency Cepstral coefficients (MFCC), Hidden Markov Model (HMM), Isolated Kannada digits, HMM Toolkit (HTK).