Abstract
This paper proposes a system of isolated digit recognition for Marathi language using HTK approach. The database used contains 800 utterances of 40 individuals. Among them 20 are female and 20 are male. For training the acoustic features of the database powerful MFCC i.e. Mel frequency cepstral coefficients technique is used. We have used word level model to recognize the Marathi isolated digits. The result analysis of the system shows 99.75% recognition with 48.75% accuracy.

References

- The HTK Book. By Steve Young, Gunnar Evermann, Mark Gales, Thomas Hain, Dan Kershaw, Gareth Moore, Julian Odell, Dave Ollason, Dan Povey, Valtcho Valtchev and Phil Woodland.

Index Terms

Computer Science

Information Systems
Keywords
Htk  Hmm  Acoustic Model  Digit Recognition  Grammar  Mfcc