Abstract

This research is concerned with facilitating the use of Al Qaeda Al Norania as an important Learning method in pronunciation proficiency of Arabic Language and Holy Qur’an. Speech Verification techniques were applied to detect how close the trainee’s pronunciation is to the guaranteed reference reader. The impact of the number of coefficients and parameterization of Mel-Frequency Cepstral Coefficients (MFCC) on verification accuracy was tested and compared. Al Qaeda Al Norania records and HTK toolbox were used to generate the best verification model for selected Arabic Syllable.

References

- Nour Mohamed Hakany, "?????? ????????? ?????????? ???????";
- Ibrahim AbdelMohsen El Bedewy, Mohamed Abed El Qarshy, "????? ??????? ??????? ??????? ????? ??????? ??????? ??????? ??????? &quot;., King Abdul Aziz University.
- Mohamed Elmahdy, Rainer Gruhn, and Wolfgang Minker, "Novel Techniques for
Comparative Evaluation of Different Mel-Frequency Cepstral Coefficient Features on Qura’nic-Arabic Verification


Index Terms

Computer Science

Pattern Recognition
Keywords
Hidden Markov Models (HMM)  Mel-Frequency Cepstral Coefficient (MFCC)
Arabic Speech Verification
HTK Toolbox.