

International Journal of Computer Science and Mobile Computing

A Monthly Journal of Computer Science and Information Technology

ISSN 2320-088X

IJCSMC, Vol. 3, Issue. 3, March 2014, pg.795 – 800

RESEARCH ARTICLE

Analysis of Speech Signals

Komal Jindal

Department of Computer Sciences, ITM University, Gurgaon, India

komaljindal14@yahoo.com

Abstract— Speech Sounds are vastly information-rich signals that impart knowledge about the words, accent, and style of speech, loudness of speech, speaker's identity, expressions and the state of voice of the speaker. In this research, we have investigated the fundamentals of speech, its production and its perception. Database of speakers of different age groups have been dissected in this investigation with the help of which the spectrum analysis and the acoustic feature (pitch) analysis have been performed. Younger children show an increased value of pitch as compared to the value of pitch extracted from the speech samples of adults. With the procession of age, the pitch seems to be abating and sometimes shows a varying value in accordance with the gender of the speaker. In this paper, we have presented a comparative speech study of speakers of varying age groups by analysing their voice samples which were recorded by us.

Keywords—Acoustic; Pitch; Spectrum; Speech synthesis; Speech Signal; Waveform

Full Text: <http://www.ijcsmc.com/docs/papers/March2014/V3I3201499b1.pdf>