

Pitch scale harmonic filter

Abstract

Pitch is defined as the property of sound that varies with variation in the frequency of vibration. In speech processing aspect, pitch is defined as the fundamental frequency (oscillation frequency) of the glottal oscillation (vibration of the vocal folds). Pitch information is one of speech acoustical features that not often taken into consideration while doing speech recognition. In this research, pitch is taken into consideration then it is optimized and was used as another feature into NN along with DTW-FF feature. Pitch contains spectral information of a particular speech; it is the feature that was used to determine the fundamental frequency, F0 of a speech at a particular time.