

ABSTRACT

In recruiting members of the choir, it takes people who have the ability in the field of music. The ability is able to sing according to tone and rhythm of the song. Where to find the person's musical skills and abilities required great effort, for example do vocal test on the tutoring vocals. This is less efficient.

In this final task, is realized one of the innovations in the form of an application for tone accuracy assessment which provide innovation in the field of music. The application will calculate the accuracy of tones based on frequency and time parameters. The representation of domain which is performed in realtime. The method to measure the accuracy of the frequency on a tone or a voice signal is compared by using Euclidean distance method, so the similarity of both signals will be seen from the value of accuracy. If the value of close to zero its mean that the both of signal is same.

In this application system, the system can measure the accuracy of tone is quite effective, where the system can distinguish the user's active and inactive (passive) in the choir. Where the value range of users who have the precision of tone in the background chorus of 20.91 – 47.14, while the range of tones produces precision users who are not active in the choir of 70.32 – 102.09. This result is based on the lowest – highest value of each type of user background

Keywords: Frequency, Value Accuracy, signal, spectrogram, Euclidean Distance, real time