ABSTRACT

Music is an art which is very popular and continues to grow today. It can be seen

from the increasing number of standing efforts in the field of music. On this last project

was the creation of one of the innovations in the form of accuracy assessment application

note to provide innovation in the field of music. The application will calculate the accuracy

of tone based on the frequency parameters, the representation of the signal will be

displayed on Spectrogram in time-frequency domain.

Method for measuring the accuracy of frequency on a tone or voice signal is

compared using correlation coefficient function, so the similarities the two signals will be

seen from the value of accuracy. If the value is close to one value, it is said to approach the

same value, whereas if the value is close to zero value signal is said not same.

In the application system on this last project, the system can measure the accuracy

of tone that quite effectively, whereby the system can distinguish the user's active and

inactive (passive) in the Choir. Where the range accuracy of a user that has a background

in the Choir that is 60.62 - 69.22, while the range of accuracy that the user produce a tone

that is not active in the Choir ie 44.36 - 56.62, this result was obtained based on the lowest-

highest value of each type of user background.

Keywords: choir, frequency, value accuracy, signal, spectrogram, cross coefisient.

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