

ABSTRACT

In an audio signal, there are several sections that can be processed or analyzed, as the frequency. In common, frequency effect the pitch or the tone of an audio. The greater the frequency of an audio signal, the higher the tone / intonation, and vice versa. While the size of the amplitude of an audio signal affects the audio volume. The greater the amplitude, the greater the volume, and vice versa.

In making a piece of music, frequency is the main thing to make. Creativity in making the patterns of frequency, in order to become a musical work, is not owned by everyone. Therefore, there is often found the frequencies duplication of one music beetwen other music that is caused by the other music creator, either intentionally or not, duplicate the pattern of the frequency of the work of others.

In this final project, will be discussed about the seeking for the level of duplication between one song with other songs that are considered to have similarities. In this final project, cross-correlation method used to detect the level of duplication. In order that, with the cross-correlation method the value of the percentage of dependency between a pattern with other patterns can be showed. But the cross-correlation can not be used just like that, because the cross-correlation on large data is not very effective. This is because of the cross-correlation can produce positive or negative values between the two patterns. And on a large data, the possibility that the correlation value in it, is very diverse. Therefore, cross-correlation that used to find the level of duplication uses segmentation and window to the data before it is used.

keyword : frequency, duplication, crosscorrelation