

ABSTRACT

In the increasingly rapid development of technology, human needs in facilitating information search are increasing, especially in the entertainment world such as music. Therefore research is carried out on signal processing information, especially music, where users can search verse and reference with input time pieces from verses and references to be stored in a database consisting of 25 pieces of data with 5 genres that are processed manually first to determine the location seconds of verse and reff on a song.

This Final Project separates the location of verse and reference on songs by calculating the correlation between frame based on the characteristics of the Discrete Wavelet Transform (DWT) and Discrete Fourier Transform (DFT). When the song is inserted, the audio signal will be converted into small frames called the framing process, then the windowing process is carried out before being correlated so that the location of the verse and chron are separated.

In this final assignment the work parameters obtained from the highest level of accuracy with the smallest computation time use a frame size of 1000ms for parts of the verse with the hiphop genre, namely the song DJ Khaled - Wild Thoughts ft. Rihanna, Bryson Tiller.mp3 is 100% with 0,48 second of computation time and in the reff section with the pop genre, the song The Script - Super Heroes.mp3 is 99.71% with a computing time of 0,58 seconds.

Keywords: Verse, Reff, Discrete Wevelet Transform (DWT), Discrete Fourier Transform (DFT) .