

ABSTRACT

In previous research ever designed the application of song title identification from humming humans. However the app still separates manually between verse and reff parts in its database. Therefore, in this final project designed a system to determine the reff of songs automatically, provided that already know the position of the first reff of the song.

The system was designed using full song input which is then determined by the first part of the reff, then extraction feature using Discrete Cosine Transform (DCT) method. Next is done matching the pattern of the song section by using autocorrelation to get the second and third part of the corresponding reff..

After testing with scenarios that are designed then obtained the results of the system output. The scenario is to determine the most ideal frame size to produce the best accuracy and computation time. In this study the frame size used is 100 ms, 200 ms, 300 ms, 500 ms, 800 ms, 900 ms, 1000 ms and 2000 ms. From the results that have been tested, the system gets good results on the frame size of 800 ms, 900 ms and 1000 ms is 96%, with the best computation time of 14 seconds at 1000 ms frame size.

Keywords: Song, Reff, Discrete Cosine Transform (DCT).