

## **ABSTRACT**

*Internet has become the greatest source of information, at this point, almost all information can be searched via the internet. One of the information frequently sought after today is a song file that is usually referred to as mp3. By using search engines media files mp3 songs is very easy to get, we only need to enter the song title or artist's keyword will display the desired list of mp3 files. However, what if we do not know the title or artist of the song? Might be a little inconvenient to search. Therefore, it takes an app search engine or search engine more efficient and faster. This is the reason for the author to create an application using the keyword search engine or the sound of a voice recording using Query by Humming.*

*Query by Humming is a method that uses humming sound as the input data. Feature are taken to match the song with the humming is MDCT coefficients (Modified Cosine Transform), and then using difference of peak energy from MDCT coefficient the similarity measure is calculated.*

*From the experiments, the best accuracy is achieved with 25 second humming duration which is 56,67%. Voice Separation is not related with the accuracy of experiments because the sistem using melodic contour.*

*Keyword : MDCT, mp3, Software, web, search engine*