

ABSTRACT

The development of the music industry is currently very rapid, marked by numerous singers or bands have sprung up both in the country and abroad. For music lovers it is fun because it will add to a collection of songs, but with the increasing number of collections to make the audience a song difficulty in finding the title track to be heard. One of the convenience afforded in this study is a test application classification humming the title song of man. So it can determine how closely a person in mensesandungkan the song. In previous research (Iqbal Tawakal, 2014)^[7] never designed a system using artificial neural network back-propagation. Given previous research, the authors compared the destination by a different methods

In this final project, the research carried out in the form of classification title song of chanting men. The identification process using humming the title song of man recorded using the microphone on the phone or with Adobe Audition CS6. Feature extraction method used is the Fast Fourier Transform (FFT), where this method has been widely used in processing voice signals in the form of characteristic extraction results of each training data and test data. Further classification using Dynamic Time Warping (DTW) which method works by looking for the minimum distance between the training data with test data.

Given this final project produced a system that can identify the song title of the human hum hum whether in accordance with the title of the song in question. After testing between training data and test data of different data in each scenario obtained accuracy value by 100% between training data and test data that contains both the original song. Testing the training data in the form of original songs and the test data in the form of a humming human values obtained an accuracy of 81.67%, and then the vocal training data and test data obtained value of the human hum 85% accuracy. Testing between training data and test data are both in the form of a vocal with accuracy values of 83.33% and the last between training data and test data in the form of a humming both humans produce value 61.67% accuracy.

Key Word : Human's Humming, Harmonic Fast Fourier Transform (FFT), Dynamic Time Warping (DTW)