

ABSTRACT

As a country whose population is mostly Muslim, Muslims can read Al-Quran well is an important thing to be noticed. Because if there is mistake in the reading Al-Quran, it will change the meaning of contained Al-Quran. Now, the condition of Muslim community, there are many who make mistakes while reading the Qur'an because they don't understanding in how to read Al-Quran well, and they do not take the time to learn reading Al-Quran well intensively.

In this Final Project, I create a tool to detect the level of truth reading Al-Quran with test parameter in time and frequency domain . This Final Project focus that detection on long short of reading the Qur'an. The audio extraction parameter that used, such as : *Zero Crossing Energy (ZCR)*, *Band Energy Ratio*, *Total Energy*, and the other feature that will used to signal classification.

The system has been able to detect with 82 percent accuracy of the truth of the Qur'an readings are detected. On the detection process, system has counted computation time after recoding voice process until classification process with *Distance Vector*.

Keywords: audio characteristic, reading the Quran, signal classification.