ABSTRACT

AN APPLICATION OF VOICE COMMAND WITH FAST FOURIER TRANSFORM AND DIVIDE AND CONQUER METHODS IN THE SMART HOME SIMULATION

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Generally, an activation of dwelling electronic instrument is pushing the button or switch. Sometimes, the situation is inefficiency in time, especially to the individual with physical disorder.

In fact, the dwelling electronic instrument control could be done by using of voice command only that implememnted by speech recognition in the smart home concept. A method used in research is speech recognition with algorithm of Fast Fourier Transform and Divide And Conquer. It is sustain to process and speech recognition for accurately and wasting of time.

The sampling test is arranged by three mans and woman says the words in four times and result in 80 data sample in this research. The result shows that speech recognition level from every single person is 48,75% in accuracy and the word accuracy is 48%.

Keyword: voice command, Fast Fourier Transform, Divide and Conquer, smart home and electronic.