

Abstracts

This research presents automatic speech recognition of isolated word using hidden markov model. Note that isolated word is representation of Thai initial consonant. The goal of this system is applied for speech training. The list of 21 isolated words are selected from Thai's textbook of elementary education and represented for 21 initial consonant phonemes. The training corpus of recognition model is created from 7 male and 3 female voices while additional 1 male and 1 female voice is used for testing model.

The accuracy recognition of male and female pronunciation is 61.90% and 52.38% respectively; therefore, the average accuracy is 57.15%. The primary test of this system is performed and its performance is very promising for the future work.

Keywords: Hidden Markov Model, speech recognition , isolated word , Thai initial consonant