

ABSTRACT

Thai syllabic recognition is a third part of connected Thai speech recognition. There are many techniques based on searching and learning algorithms to segmentation word and correction unknown word.

This research proposes a Thai syllable correction in connected Thai speech recognition system, which recognizes syllable sounds from their phonemes by using probabilistic of Thai Leading consonant ambiguous sound and Thai Ending consonant to create Thai Ambiguous Phonetic Models (AMPM). Then use Thai word segmentation algorithm to separate a sequence of syllables to Thai word. Apply Thai word correct algorithm to find the average maximum likelihood in word model to correction unknown Thai word. This system is designed to have a capacity to recognize Thai word.