

ABSTRACT

Text to speech is a technology that can generate sound from user input according to recitation text in used language. Indonesian language is one of the language with the provisions of its pronunciation prevailing simple, that is voice in Indonesian language must it is pronounced as it's written. Prosody is a high value and low pitch sound, intonation, volume, duration and pressure during sentence pronunciation. With these advantages, TTS is designed based on android Indonesian language with approach of syllable, and capable of producing a voice that has a diverse intonation.

Text to Speech Indonesian with approach of syllable has been implemented with various algorithms used to find syllable of a word. In this research, used the classification method to find syllables and perform optimization for system performance and improve the naturality of pronunciation of the system. The process of optimize is conducted by 2 stage, namely the text processing and normalizing database of sound. The text processing stage consists of pre-processing of text to the process of searching syllables. The sound normalization stage is to prepare the sound library that will be used by the system.

As the result, by using classification method, the accuracy of breaking down the words from their original word reaches up to 98,88%. Meanwhile, for the words with preposition reaches only 80%. In the other method, the accuracy of breaking the word down from it is original word only reaches 92.22% and 88.68% for the related word. Prosody model is static with setting the tempo, addition fade-in fade-out and minimize intermissions in the beginning and the end the sound library.

Keywords: Teks to Speech, Android, Classification.