

ABSTRACT

Text-to-Speech technology is a technology that can change text input Be voice or speech. Text-to-Speech itself is already available in Bahasa Indonesia. However, Text-to-Speech in Bahasa Indonesia itself is less varied.

Based on previous work done by Armin Ghayoori, Faramarz Hendessi, and Asrar Sheikh. Metode SEHMM resulted in better performance. That's why the author tries to implement this method on Text-to-Speech Bahasa Indonesia with syllable and android based database.

Test to assess the performance of the system by calculating the processing time until output out. With the number of databases of 27 syllables, tested with 3 words using device 1, yielding average time 51.298 seconds, 4 words average time 86.21 seconds, and for 5 words time average 102.402 seconds. For testing 3 words with device 2 and Number of databases equal to device 1, average time for 3 words is 37.59 seconds, 4 words average time 63,523 seconds, and for 5 words time average 75,432 seconds. From the tests that have been done device specifications affect the speed of the process. The more syllables or words in a single sentence the longer processing time, because the system will search the entire syllable of the stored database.

Key Word : SEHMM, Text-to-Speech, ErgodicHMM, MFCC, AndroidAPP, Codebook