ABSTRACT

Sincerely, SMS Technology helps human being to do communication, but as reading its text isn't enough. Because of that, SMS application development based on Text To Speech which is used without read it is needed.

In This final Task, have been developed SMS to Speech simulation application with OLA Synthesizer. Text To Speech has two blocks, they are NLP and DSP. NLP input is text which will be caprice with word parsing process and words analyze for looking up in voice dictionary. NLP output is normalized words in *diphone* unit. DSP function is accesses each *diphone* voice signal, combines and caprices it in order to produce Indonesian language grammatical rule voice. OLA method is conducted by windowing, determine overlap limit, overlap and non-overlap region. OLA Method gives fast computation.

Final aim from this final task is build a simulation application for SMS on pocket PC based on TTS that has 3 (Enough) MOS Values above from 5 scale

Key Words : TTS, NLP, DSP, OLA, diphone, overlap