

“HYBRID SYNTHESIZER FOR TEXT-TO-SPEECH CONVERSION FOR GUJARATI LANGUAGE”

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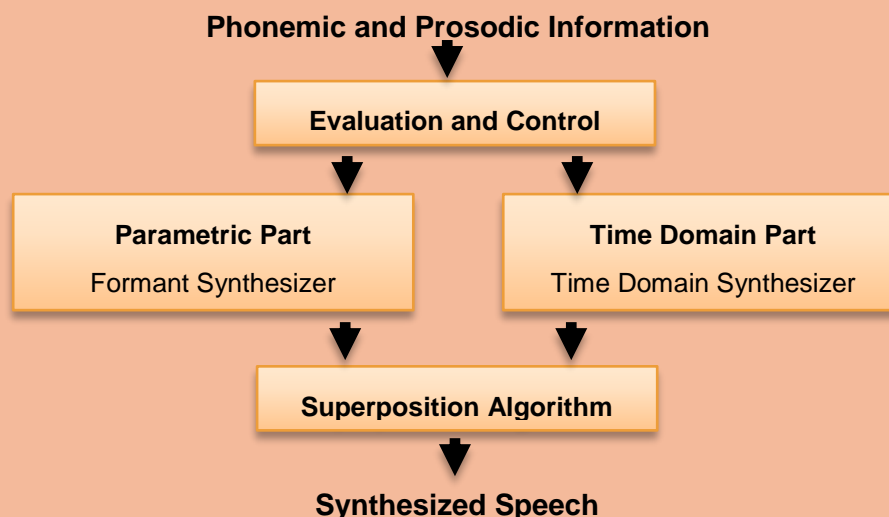
Speech is most natural way of communication in our daily life. The text-to-speech (TTS) conversion system will play very important role for physically disabled people with visually impairment and illiterate masses. TTS system are in great demand for the Indian languages specially for Gujarati language, as very less work has been done for Gujarati language.

It is artificial production of human speech. A computer system used for this purpose is called as speech synthesizer. The TTS system works on two basic properties: (1) Text Processing (2) Speech Synthesis Techniques.

Objective :

- (1) To provide design architecture of text-to-speech (TTS) that supports Gujarati language.
- (2) To identify existing limitations of text-to-speech (TTS) systems and develop better solution for the same.
- (3) To develop text-to-speech system with “Prosodic Model”.
- (4) To achieve quality measures of speech Synthesizer : Naturalness, Intelligibility
- (5) To design user interface having facility to select input data just in one click.
- (6) To develop a system using hybrid Synthesizing technique which overcomes the limitations of current TTS systems.
- (7) To develop a system which read the number as a whole.

Basic Idea of Hybrid Synthesis System :



Conclusion :

This proposed research work is to develop the Gujarati text-to-speech synthesizer using hybrid technique. This system will overcome the limitations of existing system by achieving quality measures of speech (Naturalness and Intelligibility) and Prosody in the speech.