

**A NOVEL APPROACH FOR DESIGNING A SPEECH SYNTHESIS SYSTEM FOR
INDIAN LANGUAGES**

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ABSTRACT

Designing a speech synthesizer for Indian languages do not have a long history, rather it started a decade back. Different theoretical approaches have been put forward in this regard. We are designing the Text-To-Speech system for Oriya, Hindi and Bangla. The present study made by us is based upon the rules of ancient Indian philology derived from Paniniyashikshya and Pratishakshya. While designing, prosody plays a major role and unless the speech signal is properly parameterised the proper naturalness cannot be realised. Hence we have obtained eighteen odd different parameters of the signal for designing a robust TTS system. Some of the example of the parameter extraction is explained in this paper.