

**AN APPROACH TO PHONEME RECOGNITION IN THE PROCESS
OF SPEECH RECOGNITION OF INDIAN LANGUAGES
ORIYA - A CASE STUDY**

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ABSTRACT

This paper presents a frequency domain analysis for the classification and recognition of phoneme in Indian context. The vowels and consonants are classified according to their place of utterance. Our method of recognition is pattern matching. The duration of vowel is greater than the duration of pure consonants. Different features like formant, pitch, energy etc. are obtained for each individual character. Taking the feature vectors class and patterns are generated and the exact classification and sub-classification of individual Oriya phoneme is obtained. The experimental results and the algorithm show the accurate classification of the Oriya phoneme.