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Speech Recognition and System Controlling using Hindi Language

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Sandeep Rathor; R. S. Jadon [All Authors](#)

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Abstract

Abstract:

This paper presents a speech recognition techniques, especially for Hindi origin speakers. It also controls the system applications through the input voice. This paper proposes a method for Hindi speech recognizer which can be extended, its domain from Hindi speech recognition to multiple Indian origin speech recognition like Bangla and Marathi. For this purpose, we used CMU sphinx 4 as the base model of voice recognition and built it over an acoustic language model and language-specific phoneme dictionary. This paper exhibits an efficient way of MLVR (Multi-Linguistic Voice Recognizer) with a considerably low error tolerance.

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- I. Introduction
- II. Related Work
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