

## **CLE SEMINAR SERIES-III**

**Topic:** Acoustic Features based Language Identification Using Single Word Utterances with Fixed Vocabulary

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**Venue:** KICS Seminar Hall

### **Abstract:**

Advancement in communication technology is one of the boosting factor to make the world as global village in the past decade. Communication between people around the world from different social, economic, cultural, political, and linguistic background is carried out via telephone, email, chat, and audio/video calls. For effective communication it is required that people should communicate with each other in a common language understandable to everyone. However, lack of such common language is one of the main barrier in effective communication between two parties from different linguistic background. To overcome this issue it is required that communicated content (written or spoken) should be translated from one language to other. This issue can be addressed using two independent steps, (1) identification of the language of source content (2) translation of content from source language to the target language. With the escalated globalization in past decade need of automatic language identification is becoming more and more evident.

Automatic spoken language identification is the process of identifying language within an utterance independent of speaker and topic. Just like language identification by human is based on different cues i.e. location, environment, and other information like familiarity with language, automatic identification of spoken language is also carried out using set of features extracted from speech signal. Generally these cues are related to phonetic, phonological, morphological, syntactic and semantic information extracted from speech signal.

In this seminar we will discuss different techniques used for language identification.