

CLE RESEARCH SEMINAR

Topic: Automatic Stress Marking on Urdu Speech Corpus using Acoustic Cues

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Abstract

Stress is described as the display of prominence on a certain syllable. Syllable prominence can change the meaning or class of a word in some languages. Urdu has been considered as a fixed stress language and rules have been defined to identify the stressed syllable in a word. Analysis on recorded Urdu speech shows that stress in Urdu speech is variable. Therefore, rules defined for lexical stress marking cannot be applied to mark the stress on speech. Our recent research has been focused on developing a mechanism for determining Urdu stressed syllables using the acoustic cues of perceived stress and automate the process of stress assignment to save time and manual effort. The automated system uses two cues to mark stress on a syllable and leave the syllable unmarked if the cues don't help. Unmarked syllables are manually marked later by linguists. The automated stress assignment system assigns stress to 67.64% syllable with 96.52% accuracy.