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RESEARCH ARTICLE

A CASE STUDY OF SPEECH EMOTION RECOGNITION.

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Abstract

The speech emotion recognition technology has a potential to provide considerable benefits to the national, international industry and society in general. Speech Emotion Recognition is a vital part of efficient human interaction and has become a new challenge to speech processing. In this paper speech emotion recognition system has been reviewed. Also Features and classifier for recognition of speech has been discussed.

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Introduction:-

In Human interaction the information can be exchanged through speech, body language, facial expression etc. Speech is the most well-known way of communication between individuals. Speech is produced from a time varying vocal tract system excited by a time varying excitation source. This enables faster sharing, spreading and exchange of messages, ideas and inventions.

Conversion between humans is in reality not just what humans say, but also how they say it. Furthermore, facial expressions, as a part of non-verbal communication, are responsible for about 55%, voice intonation for about 38% and actual words for 7% of the message perception [1]. Expressions are not enough to correctly understand the frame of mind and objective of a speaker and thus the introduction of human social skills to human-machine communication is of supreme importance. This can be achieved by the researching and creating methods of speech modeling and analysis that embrace the signal, linguistic and emotional aspects of communication. The Emotion can be expressed through social behaviours and classified as shown in Figure 1,

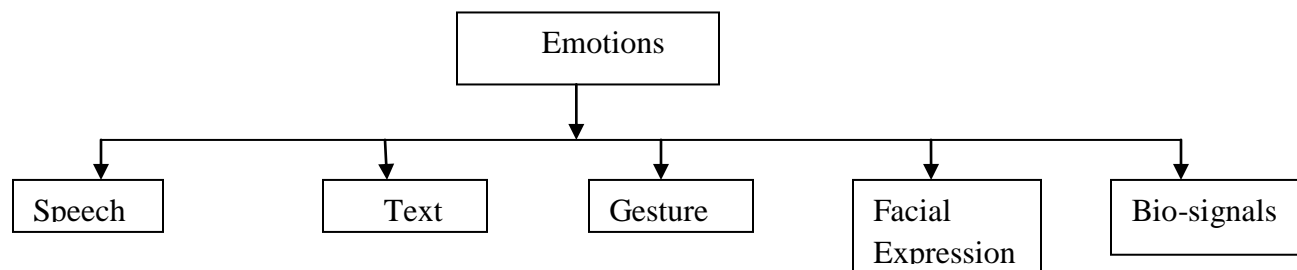


Figure 1:- Classification of Emotions

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