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SPEECH RECOGNITION SYSTEMS – A REVIEW

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ABSTRACT

We as humans speak and listen to each other in human-human interface, similar attempts have been made to develop vocally interactive computers, computer that can give speech as output (speech synthesizer), given speech as (speech recognizer). Speech recognition allows the machine to turn the speech signal into text or commands through the process of identification and understanding, and also makes the function of natural voice communication. Developing and understanding Speech Recognition systems is an inter-disciplinary activity, taking expertise in linguistics, computer science, and electrical engineering and its ultimate goal is to achieve natural language communication between man and machine. This paper provides a survey on speech recognition and discusses the techniques that enables computers to accept speech as input and shows the major developments in the field of speech recognition. This paper highlights the speech recognition techniques and provides a brief description about the four stages in which the speech recognition techniques are classified.

Keywords: artificial neural networks, filterbank, HMM, human-computer interface, mel filtering, natural language processing, speech recognition