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Real time enhanced speech recognition technique to operate computer system using SVM

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Document Sections

I. Introduction

II. Pre-Processing Techniques

III. Training Using SVM

IV. Testing Using SVM

V. Results

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Abstract: One of the dynamic areas of research is to recognize the word spoken by same speaker using support vector machines. The spoken English word is used to operate the computer system without any input device like mouse or keyboard. The aim of the proposed work is to remove the use of touch screen concept and operate the whole computer system through the voice commands like open or close file or any computer operation. The performance of proposed system gives better result with reducing the work of human in terms through input device or touch screen. The results are obtained for various machine operation commands like shutdown, logoff, open file etc. The real time performance of proposed work is applied to operate whole computer system using speech word. Samples of real time feature extracted datasets are constructed for training and testing. The samples include English words to operate machine in real time mode and offline mode such as shutdown, open ppt, notepad, close etc.

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 Contents

I. Introduction

Automatic speech recognition (ASR) is thought to be an idea of sci-fi and which has been hit by number of execution corrupting factors, is presently an imperative piece of data and correspondence innovation. Changes in the essential methodologies and advancement of new methodologies via researchers lead to the progression of ASR which were simply reacting to an arrangement of sounds to advanced ASRs which reacts to fluidly spoken regular language. Significant advancement is being recorded frequently on both the innovation and abuse of ASR and spoken language frameworks. Nonetheless, there are still mechanical obstructions to adaptable arrangements and user fulfillment under a few circumstances. In this article, we review the recent techniques related to ASR system based on the few factors which includes the pre-processing technique, (2) classification technique, feature extraction technique and speech recognition technique. Finally, we analyse the ASR systems based on the techniques then the future scope of the ASR for further improvement.

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