**REVIEW**

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| Title | Security System in Speech Recognition |
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| Objective's | Defines the response to noisy sound signals. |
| Subject | This approach is divided into two main stages. In the initial stage, high level noise filtering is performed to eliminate background noise. To do this high level segmentation the Spectral-reduction method is used. In the next step, to eliminate instrumentation noise, a linear probabilistic coding approach is used. This is an analytical approach that will effectively reduce noise in signals. In the final stage, the recognition process is carried out using an enhanced HMM neural network approach. HMM [11] actually identifies speech features and finally the neural network carries out the identification process. Then these features are trained on the nerves to make effective recognition. The approach is strong again, namely noisy speech. This is a three-stage model.<br><br>To recognize speakers under a noise vector, a two-stage model is defined in the previous section. The initial stage is for filtering voice signals and the second is to introduce speakers. An increase or increase in signal is again defined under two main approaches called spectral signal analysis and the LPC approach. This recognition is carried out under a hybrid model using HMM and neural networks. The implementation of the work is done in real time voice for various users who use MATLAB. |
| Strength's | The de-nosing process will be effective against background noise and instrumentation noise. In the previous stage, the spectral reduction method was used to reduce background noise over the speech signal and then in Linear predictive coding it was used for low level filtering. This filtration process will reduce instrumentation noise.<br>The recognition process defined in this model is hybridization of HMM and neural networks. HMM will actually be used for feature extraction and nerves will use a classification approach to do recognition. Recognition will be performed on the speech dataset displayed. The purpose of this work is to increase the recognition ratio. |
| Weakness | - |