Abstract

In speech communication systems, it is mandatory to have noise free speech signal with high quality and clarity to obtain high performance. In real world it is very complicated to stockpile noise free speech signal all time for the speech communication system. It is found that speech signals get affected by background noise and tamper the system accuracy. It is very important to filter out the background noise form speech signal to enhance the performance of communication systems, it is also important to enhance the robustness of the speech code and also to enhance the listening ability. To filter out the background noise from the desired speech signal several speech filtering algorithms has been introduces in last few years. In this paper different speech enhancement systems have been examined and a Nobel method which is Second Ordered Fast Adaptive Extended Kalman Filter for speech enhancement has been proposed.

References

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**Index Terms**

Computer Science  
Signal Processing
Keywords

Speech Enhancement  Speech Denoising  Speech Communication  Wiener Filtering
Kalman Filter

Fast Adaptive Kalman Filtering

Second Ordered Fast Adaptive Extended Kalman Filter.