Abstract

Embedding a secret message into a cover media without attracting any attention is known as steganography. Steganography is one of the methods used for hidden communication purposes. One of the cover media that can be used for steganography is speech. All the methods that we have found for audio steganography, changes the values of maximum number of samples from the audio signal. Usually change the sample values of the signal annoying the listener and reduce perceptual transparency. So the special methods are required for hiding the information in audio signal. In this paper, we propose a new steganographic method in speech signals. In this method, secret data are hidden in the silence part of the speech signal. The silence parts are identified by collaborative non voice detection algorithm. The secret data are hidden by reducing a small number of sample values from some samples of the silence part. The main features of our method is create the high perceptual transparent steganographic system with acceptable data hiding capacity This method can hide information in a speech stream with very low processing time that makes our method as a real-time steganography method.

References

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**Index Terms**

Computer Science Security

**Keywords**

Steganography, Information Hiding, Speech Signal Covert Communication, Data Embedding