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SURVEY ARTICLE

SURVEY ON SECURE AUDIO ENCRYPTION USING SILENCE PART OF THE SPEECH

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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 audio steganography is speech. All the methods that we have found for audio steganography change 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. Hence the special methods are required for hiding the information in audio signal.

This survey proposes a new approach for steganography 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 feature of our method is to 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.

Full Text: <http://www.ijcsmc.com/docs/papers/February2014/V3I2201499a13.pdf>