



Increasing the efficiency of Echo Hiding Digital Audio Steganography

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Abstract : With the advancement in the information processing and transferring devices ,security of the transferred information is of significant concern. Several methods have been developed for secured data transfer; Steganography is one of the methods. Steganography means the method of hiding some message so that except sender and Recipient, no one can even suspect that any message is hidden. In digital Steganography, the message is hidden in the audio signal or cover signal. In Echo hiding digital audio steganography , message is embedded in a sound signal by introducing an echo into the discrete signal. It has the advantage of high data rate. In echo hiding, encoding is done by breaking the signal into blocks & each block is assigned binary “1” & binary “0” depending upon some offset value that we use in encoding. After encoding process, the blocks are concatenated to create final signal. But in this Process, there is an ample chance that a signal, having fairly noticeable mix of echo- Es, thus increasing the chance of detection. In this paper, another method is explained, which maintains the high data rate & increases the efficiency of the echo hiding Method. A comparative discussion is done in this paper between those two processes.

Keywords: Steganography, Cover signal, Echo hiding.