Audio Steganography based on Bit Modification

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Abstract

Steganography is the technique of hiding confidential information within any media. Embedding convert audio message in cover speech utterances for secure communication is considered. Information embedding by bit modification of host samples is a widespread method in audio message embedding. For addition of security, the convert audio message is represented in compressed form with possibly encryption and/or encoding. To embed the information, one significant bit in each samples of a given cover utterance is modified with the data bits and a key. At the receiving side, the same key is applied to retrieve the embedded message. To study the usefulness of the proposed method, the experiments are carried out with clean utterances including speech signals from TIMIT databases as cover signals and a variety of convert messages.