

Project Proposal

Project Name:

[eSteganoWave Steganography for hiding data in wave audio files - C#](#)

Abstract:

Data hiding in media, in images, video and audio, is of interest for the protection of copyrighted digital media, and to the government for information systems security and for covert (Steganographic) communications. It can also be used in forensic applications for inserting hidden data into audio files for the authentication of spoken words and other sounds, and in the music business for the monitoring of the songs over broadcast radio.

Data hiding is a characteristic of object-oriented programming. Because an object can only be associated with data in predefined classes or templates, the object can only "know" about the data it needs to know about. There is no possibility that someone maintaining the code may inadvertently point to or otherwise access the wrong data unintentionally. Thus, all data not required by an object can be said to be "hidden". Data hiding in media, in images, video and audio, is of interest for the protection of copyrighted digital media, and to the government for information systems security and for covert (steganographic) communications. It can also be used in forensic applications for inserting hidden data into audio files for the authentication of spoken words and other sounds, and in the music business for the monitoring of the songs over broadcast radio. The technology enables the insertion and recovery of hidden data in audio files through manipulation of the relative phase of harmonically related components of a host audio signal.

Data hiding in audio signals is especially challenging, because the human auditory system (HAS) operates over a wide dynamic range. The HAS perceives over a range of power greater than one billion to one and a range of frequencies greater than one thousand to one. Sensitivity to additive random noise is also acute. The perturbations in a sound file can be detected as low as one part in ten million (80 dB below ambient level). However, there are some "holes" available. While the HAS has a large dynamic range, it has a fairly small differential range. As a result, loud sounds tend to mask out quiet sounds. Additionally, the HAS is unable to perceive absolute phase, only relative phase. Finally, there are some environmental distortions so common as to be ignored by the listener in most cases.

We exploit many of these traits in the methods we discuss next, while being careful to bear in mind the extreme sensitivities of the HAS.

Software Requirements:

- C#
- VS 2010 and heigher

Hardware Requirements:

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Processor: Preferably 3.0 GHz or Greater.

RAM : 1 GB or Greater.

Limitations of the Software:

This project was developed to fulfill user requirement; however there are lots of scope to improve the performance of the Steganography for hiding data in wave audio files System in the area of user interface, database performance, and query processing time. Etc.

Future Enhancements:

- Support more audio file format like mp3, mpg4 etc.

Project Details:

- No of Form, Pages, Reports in project source : 3
- No of database tables : NA
- No of pages in project report : 60

Project Demo:

<https://youtu.be/YAMcaLYjvM>

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Project Report TOC:

- Abstract
- Introduction
- Data Hiding In Audio
- Audio Environments
- Features and Applications
- Project Overview
- The Wave File Format
- Hiding the Message
- Extracting the Message



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- Literature Review
- System Analysis - System Requirements
- About The Software- Microsoft .Net
- System Design
- System Flow Diagram:
- Encryption
- Decryption
- Data Flow Diagram
- System Implementation
- System Testing
- Conclusion and Future Enhancement



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