



[Browse](#) [My Settings](#) [Help](#)

[Institutional Sign In](#)

Institutional Sign In

40\_A Novel Approach to Audio Steganography on Audio Input for Secure Communication

All



ADVANCED SEARCH

Conferences > 2023 8th International Confer... ?

# A Novel Approach to Audio Steganography on Audio Input for Secure Communication

Publisher: IEEE

[Cite This](#)

PDF

<< Results | Next >

Anil Hingmire ; Nidhi Karulkar ; Ruchali Mhatre ; Yash Patil **All Authors** ...



193 Full Text Views

## Alerts

[Manage Content Alerts](#)

[Add to Citation Alerts](#)

### Abstract

Document Sections

- I. INTRODUCTION
- II. RELATED WORK
- III. PROBLEM STATEMENT
- IV. EXPERIMENTAL STUDY
- V. EXPERIMENTAL SETUP

[Show Full Outline](#) ▾

[Authors](#)

[Figures](#)

[References](#)

[Keywords](#)

[Metrics](#)



Download PDF

**Abstract:**In today's digital age, one is focused on copyright-dependent people and organizations, especially in the entertainment business, and concerned with the privacy of data. ... [View more](#)

#### ► Metadata

##### Abstract:

In today's digital age, one is focused on copyright-dependent people and organizations, especially in the entertainment business, and concerned with the privacy of data. The differences in the human voice makes it challenging to produce the watermark needed to protect audio signals from unauthorized access. Enhancing the security of the transmitted data is the main goal of the steganography method. The steganographic file cannot be accessed or used improperly by the unauthorized user. To maintain data confidentiality and privacy, audio steganography is equally applicable to non-technical sectors. Steganography, is often known as security by obscurity. Steganography functions by substituting bits of different, unseen data for pieces of redundant or unnecessary data in common computer files (such as images, sound, and text). This secret data may be in the form of plain text, cipher text, or even sound. In a computer-based audio Steganography system, digital sound is used to covertly encode messages. By slightly modifying the byte sequence of a sound file, the hidden message is implanted. This paper proposes a robust steganography technique that uses the LSB method for performing steganography and AES for providing added security.

**Published in:** 2023 8th International Conference on Communication and Electronics Systems (ICCES)



More Like This

**Date of Conference:** 01-03 June 2023

**DOI:** 10.1109/ICCES57224.2023.10192611

**Date Added to IEEE Xplore:** 01 August 2023

**Publisher:** IEEE

▼ **ISBN Information:**

**Electronic ISBN:**979-8-3503-9663-8

**DVD ISBN:**979-8-3503-9662-1

**Print on Demand(PoD) ISBN:**979-8-3503-9664-5

**Conference Location:** Coimbatore, India

☰ **Contents**

**I. INTRODUCTION**

The name steganography itself comes from the Greek words steganos, which means covered or secret, and graphy, which means writing or drawing. Steganography is therefore defined as literally covered writing. The science of steganography involves concealing data such that it cannot be seen while communication is taking place. Private data is encoded in a precise way so that even its presence is concealed. Steganography is helpful for conducting covert communications together with current communication channels. The information that a user desires to convey and keep private is called a message or real data. It might be plain text, altered text, a picture, or anything else that can exist as a bit stream, such as a serial number, a copyright mark, or a communication document. This technique makes use of the steganography-key password. It guarantees that the message from a cover object may only be detected by receiving end users who possess the necessary decoding keys. Steganography object is the term used to describe a message carrier containing a securely embedded message (SO).

Sign in to Continue Reading

Authors	▼
Figures	▼
References	▼
Keywords	▼
Metrics	▼

[Back to Results](#) | [Next >](#)

**More Like This**

MarkToLock: An image masking security application via insertion of invisible watermark using steganography and Advanced Encryption Standard (AES) algorithm

2017 International Conference on Applied System Innovation (ICASI)

Published: 2017

Secure and Authentic DCT Image Steganography through DWT - SVD Based Digital Watermarking with RSA Encryption

2015 Fifth International Conference on Communication Systems and Network Technologies

Published: 2015

Show More

IEEE Personal Account

CHANGE USERNAME/PASSWORD

Purchase Details

PAYMENT OPTIONS  
VIEW PURCHASED DOCUMENTS

Profile Information

COMMUNICATIONS PREFERENCES  
PROFESSION AND EDUCATION  
TECHNICAL INTERESTS

Need Help?

US & CANADA: +1 800 678 4333  
WORLDWIDE: +1 732 981 0060  
CONTACT & SUPPORT

Follow



About IEEE Xplore | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | IEEE Ethics Reporting | Sitemap | IEEE Privacy Policy

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2024 IEEE - All rights reserved.

IEEE Account

- » Change Username/Password
- » Update Address

### Purchase Details

- » [Payment Options](#)
- » [Order History](#)
- » [View Purchased Documents](#)

### Profile Information

- » [Communications Preferences](#)
- » [Profession and Education](#)
- » [Technical Interests](#)

### Need Help?

- » **US & Canada:** +1 800 678 4333
- » **Worldwide:** +1 732 981 0060
- » [Contact & Support](#)

[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [Sitemap](#) | [Privacy & Opting Out of Cookies](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.  
© Copyright 2024 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.