A Survey on Various Approaches of Image Steganography

{tag}                                                                                                           {/tag}

International Journal of Computer Applications
© 2015 by IJCA Journal

Volume 109 - Number 3
Year of Publication: 2015

Authors:
Priyanka B. Kutade
Parul S. Arora Bhalotra

10.5120/19165-0620
{bibtex}pxc3900620.bib{/bibtex}

Abstract

Steganography is an art of concealing the fact with the purpose of communication, by hiding one information in other information. In steganography, many different carrier file formats are used now days, but the digital images are most popular for hiding information because of their frequency on Internet. There is a large variety of techniques of steganography are available for hiding secret information into images. Each of them has its strong & weak points. Choice of which steganography technique is used it depends on the different requirements of the application. For example, some applications may have need of a bigger secret message to be concealed and some need absolute invisibility of the secret message. This paper gives an overview of different techniques used for image steganography. Among these following techniques DCT & DWT techniques are widely used because of their efficiency.

References

A Survey on Various Approaches of Image Steganography


- Linjie Guo, Student Member, IEEE, Jiangqun Ni, Member, IEEE, and Yun Qing Shi, Fellow, IEEE, "Uniform Embedding for Efficient JPEG Steganography," IEEE Transactions On Information Forensics And Security, Vol. 9, No. 5, May 2014

- A. A. Al-Saffar, "Proposed Steganography Method Based on DCT Coefficients," IBN AL- HAITHAM J. FOR PURE & APPL. SCI. VOL. 24 (3) 2011

- Jiri Fridrich, "A New Steganographic Method for Palette-Based Images," Center for Intelligent Systems, SUNY Binghamton, Binghamton, NY 13902-6000


- Dr. Harish Rohil, Parul1, Manju2, "Optimized Image Steganography using Discrete Wavelet Transform (DWT)," International Journal of Recent Development in Engineering and Technology, ISSN 2347-6435 (Online) Volume 2, Issue 2, February 2014


A Survey on Various Approaches of Image Steganography

128X
- Ankit Gupta, Rahul Garg, "Detecting LSB Steganography in Images";
- Ajit Danti, Preethi Acharya, "Randomized Embedding Scheme Based on DCT Coefficients for Image Steganography"; IJCA Special Issue on "Recent Trends in Image Processing and Pattern Recognition"; RTIPPR, 2010.

Index Terms

Computer Science

Security

Keywords

Image Steganography DWT LSB DCT