Abstract

Steganography is an important technique for information hiding in any digital object. Steganography technique is the science that includes communicating secret information in an appropriate digital multimedia cover objects such as audio, video and image files. The main objective of steganography is to hide the existence of the embedded data. Steganography technique has improved the security of existing data hiding techniques by the outstanding development in computational power. Objectives of steganography are Undetectability, robustness and capacity of the concealed data, these key factors that separate it from related techniques like cryptography and watermarking. This paper delivers a survey on digital images steganography and covering its fundamental concepts. The development of image steganographic methods in spatial representation, in JPEG format and also discuss the recent development in the field of image steganography. Specific generally used approaches for increasing steganographic security are summarized and significant research developments are also discussed.
A Survey on Image Steganography Techniques

- Aravind K. Mikkilineni, Osman Arslan, Pei-Ju Chiang, Roy M. Kumontoy, Jan P. Allebach, George T. -C. Chiu, Edward J. Delp, Printer Forensics using SVM Techniques, This research was supported by a grant from the National Science Foundation, under Award Number 0219893
- T. Morkel, JHP Eloff and MS Olivier, "An Overview of Image
Steganography, in Proceeding of the Fifth Annual Information Security South Africa Conference (ISSA2005), Sand to South Africa, June/July 2005
- C. Manikopoulos, S. Yun-Qing, S. Sui, Z. Zheng, N. Zhicheng, Z. Dekun, Detection of
A Survey on Image Steganography Techniques


A Survey on Image Steganography Techniques

695–702.

Index Terms

Computer Science Security

Keywords

Digital image steganography spatial domain frequency domain security information hiding.