Introducing Image Steganography in Bangla Language Communication

Abstract

Steganography is a modern technique of science by which any message can be hidden in such a way that no one, apart from the sender and intended recipient, suspects the existence of the message like a form of security through obscurity. This technique has advantage over cryptography alone, is that messages do not attract attention to themselves where cryptography protects the contents of a message, steganography can be said to protect both messages and communicating parties. Now-a-days wide ranges of algorithms have been used using text, audio, video and images files as covering media. This paper represents a new approach for steganography in bangla texts considering the typical structure of bangla alphabets and also introduces a much easier process by which secret message is embedded in a 24 bit color image by using widely used 4LSB method. This paper shows a new path to provide an imperceptible stego-image for human natural vision by enhancing the embedding capacity of image steganography.

References
Introducing Image Steganography in Bangla Language Communication

- M. Hassan Shirali-Shahreza, Mohammad Shirali-Shahreza "Arabic/Persian Text Steganography Utilizing Similar Letters with Different Codes.", The Arabian Journal for Science and Engineering, Volume 35, Number 1B.

Index Terms

Computer Science Security

Keywords

Steganography 4LSB Image steganography Steganalysis SHA-1 Unicode.