Abstract

Information hiding techniques play a vital role in the recent years. Steganography is one of the important information hiding techniques which hides the existence of the message in the cover file. It gained importance in the past few years due to the increasing need for providing secrecy in an open environment like the internet. It can be defined as the art of hiding the fact that communication is taking place, by hiding information in other information. Many different carrier file formats can be used, but digital images are the most popular because of their frequency on the internet. Steganography is used to conceal the information so that no one can sense its existence. It has many technical challenges such as high hiding capacity and imperceptibility. The current technique proposed in this paper is based on previously proposed SMM image steganography method (Image Steganography By Matching Secret Message With Pixels of Cover Image or, Secret Message Matching) combined with previously proposed LSBraille image steganography method (Image Steganography Method By Using Braille Method of Blind People). The proposed method provides more MHC (Maximum Hiding Capacity) than the previously proposed method SMM combined with an excellent PSNR (Peak Signal to Noise Ratio).
Enhancing SMM Image Steganography Method by using LSBraille Image Steganography Method (SMMWB; Secret Message Matching With Braille)

Enhancing SMM Image Steganography Method by using LSBraille Image Steganography Method (SMMWB; Secret Message Matching With Braille)


Index Terms

Computer Science

Image Processing

Keywords

Spatial Domain Image Steganography  Peak Signal-to-Noise Ratio (PSNR)
Maximum Hiding Capacity (MHC)