Improving ZOH Image Steganography Method by using Braille Method

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 151 -
Number 7

Year of Publication: 2016

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10.5120/ijca2016911799
{bibtex}2016911799.bib{/bibtex}

Abstract

Steganography is considered one of the branches of data hiding. It is the science of hiding sensitive information in a cover such as image, audio, video to achieve secure and secret communication. The word steganography derived from two Greek words: steganos means covered and graphien means writing and often refers to secret writing. The most common use of steganography is to hide a file inside another file. In this paper we modify the secret message that embedded into the cover not the technique of embedding of the previously proposed image steganography method using Zero Order Hold zooming (ZOH) by using LSBraille image steganography method that can represent the secret message characters by 6 bits only not 8 bits as binary representation. The proposed method provides MHC and PSNR more than the previously proposed method ZOH.

References


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Index Terms

Computer Science Security
Keywords

Steganography, Zero Order Hold (ZOH) Method, Peak Signal-to-Noise Rate (PSNR), Mean Square Error (MSE).