Enhancement of Data Security using Video Steganography

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

Volume 181 - Number 6

Year of Publication: 2018

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10.5120/ijca2018917472

{bibtex}2018917472.bib{/bibtex}

Abstract

Steganography is an approach used to transfer secret information by updating data carrying medium i.e. video, audio, text file in an imperceptible manner and is a manner of masking secret data in ways that prevents revealing of hidden messages. By using steganography secure data transmission over internet could be achieved. Video files are generally a batch of still images. So, most of the techniques used for images and audio can also be applied in video steganography. The main advantage of video stream is amount of data they carry that cannot be easily detectable. Above all, it is a moving sequence of still pictures. The internet provides a method of communication to distribute information to the masses. With the growth of data communication over computer network, the security of information has become a major issue. Steganography and cryptography are two different data hiding techniques. Cryptography, on the other hand obscures the content of the message. In this research work a high capacity data embedding approach is developed by the combining two approaches LSB and DWT.

References


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Index Terms

Computer Science Security

Keywords

Steganography, Data hiding, File Security, Frame Extraction, LSB, DWT.