Abstract

Over the last few years, growth of internet and technology of media, the protection of copyright have become very vital. To look after multimedia data against illegal copying and transferring, the inclusion of a signal (digital signature, watermark) has become a duty without alter the quality of the original image, the objective of this operation is to identify the holder and care for his intellectual property. Digital watermarking has been projected as a solution to solving the copyright difficulty by introducing indistinguishable data (watermark) into original image. In this paper, we propose a study of digital images watermarking. This study is accomplish by put in watermark in different coefficients of DWT (LH, HL, HH) using dct with db1 wavelets family transform by searching the optimal block that have the maximum entropy which can be used to insert the watermark in original image. The experimental results show the different results of PSNR, NCC and IF for each coefficient of DWT and the robustness against most attacks.

References


18. Vijaya K. Ahiret, Vivek Kshirsagar, "Robust Watermarking Scheme Based on Discrete Wavelet Transform (DWT) and Discrete Cosine Transform (DCT) for Copyright Protection of Digital Images", IJCSNS International Journal of Computer Science and NetworkSecurity, VOL. III No.8, August 20 I I.


Index Terms

Computer Science  Image Processing

Keywords

Watermarking, transformation and wavelets