A Statistical Comparison of Digital Image Watermarking Techniques

Abstract

Due to the rapid advancement in internet technology and evolution of high speed networks operating throughout the world, protection of multimedia content is urgently required. So, it has become a challenging task to protect copyright of an individual's creation. Digital watermarking provides a viable and promising solution to protect copyright and authentication of the ownership. In this paper, we have performed a statistical comparison of different Digital
Image Watermarking techniques (LSB, DCT based and DWT based) that can be used to protect copyright of digital Image. We have also provided the statistical comparison of these techniques that can help us to know the pros and cons of these techniques. This statistical comparison can further be used to improvise and propose new techniques for the same.

References


Index Terms

Computer Science
Confluence
Keywords

Dct (discrete Cosine Transform)  Dwt (discrete Wavelet Transform)  Fft (fast Fourier Transform)  Psnr (peak Signal To Noise Ratio)

Idct (inverse Discrete Cosine Transform)

Idwt (inverse Discrete Wavelet Transform)

Jpeg (joint Photographic Expert Group)

Lsb (least Significant Bit)

Hvs (human Visual System)

Ber (bit Error Rate)