Abstract

With the fast improvement in information technology and multimedia, the need of digital data is enlarging every day while the speed of data over networks has passed over the crossbars. So it becomes important to protect our data from piracy and also it’s very challenging today. There is crucial need to secure the copyright of individual's creation, to overcome from these types of problem. Digital Watermarking is treated as a solution to secure the multimedia data. Digital watermarking is hiding information in any form- audio, video, text, and image in original data without humiliating its perceptual quality. Watermarking is done for data authentication, security, and copyright protection of the original data. Copyright protection concerns the positive identification of content ownership as to protect the rights of the owner. In copyright protection robust watermark can be used because they are persistently combined with an image. Attempts to remove the watermark should result in serious degradation of image's visual quality. The detection of watermark in an image perhaps used to find the copyright holder. This paper discusses the latest method of watermarking for copyright protection. The performance parameters used to evaluate results are Mean Square Error (MSE) and Peak Signal to Noise.
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Ratio (PSNR). High values of PSNR are considered as it shows the good imperceptibility of the techniques used.

References

16. S.-L. Hsieh, C.-P. Yeh and I-J. Tsai, “An Image Copyright Protection Scheme with
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Tamper Detection Capability”, Symposia and Workshops on Ubiquitous, Autonomic and trusted Computing, 2009.UIC-ATC’09


Index Terms

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Keywords

Watermark, Singular Value Decomposition (SVD), Discrete Wavelet Transformation (DWT).