A Multi-purpose Dual Watermarking Scheme

Abstract

This paper proposes an image watermarking scheme that cater to multiple purposes of copyright protection and fingerprinting. For fingerprinting images, an ID number or a unique code pertaining to the buyer is hidden with in the digital resources at the time of resource transfer. For copyright protection of the resource, a unique signature such as a logo of the owner creator is integrated imperceptibly. In the proposed method these embedding operations are performed in the transform domain using discrete wavelet transform. The embedding algorithm works in two stages; hides the fingerprint using DWT inside the logo in the first stage and in second stage, integrates this secondary watermark in the base image to be watermarked.

References

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Index Terms

Computer Science

Image Processing

Keywords

Digital images; watermarking; copyright protection; fingerprinting; discrete wavelet transforms (DWT)