Permutation Based Invisible Digital Watermarking Technique using DCT Domain

Abstract

Digital watermarking is the modern idea in digital media for copyright protection. Many watermarking algorithm has been developed in recent years, but context of the purposes, as they serve, they contrast from each other. Here we propose algorithm of digital watermarking technique based on DCT (Discrete Cosine Transformation) using permuting the image. Through
adjusting the block DCT coefficient of the image the watermarks are invisible. The images are first permuted and then converting into block allowing to 8×8 pixel and thus the watermark images are embedded through adjusting their DCT coefficient. The proposed paper also describes the experimental results that the method has strong robust.

Reference


Index Terms

Computer Science

Security

Key words

Digital watermarking    DCT coefficient    PSNR
and SM
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