Dual Image Watermarking Algorithm with SVD-DWT and Edge Detection on Different Layers of Colored Image

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Abstract

Digital image watermarking is an emerging copyright protection technology. This paper proposed a new robust digital image watermarking technique to protect the data. In this paper, Dual Watermarking Scheme based on DWT-SVD is presented to improve the robustness and protection. Both Discrete Wavelet Transform and Singular Value Decomposition have been used as a mathematical tool to embed watermark in the image. In this proposed technique, two watermarks are embedded on the different layers in the host image. Various techniques are proposed to hide the data but current technique shows robustness against various attacks.

References


Index Terms

Computer Science

Image Processing
Keywords

Watermarking, Discrete Wavelet Transform, Singular Value Decomposition, Edge Detection.