Abstract

This paper presents a digital watermarking scheme based on a new application of DWT and SVD for color artworks protection. This scheme uses the major features of the two chrominance components where the watermark bits are embedded only into one chrominance component according to the color prevalence rate. In watermark embedding process, more modifications can be done upon the selected chrominance component, while more readable information is needed during the watermark extraction process. Simulation results demonstrate that the proposed scheme yields a high level of robustness against various image processing operations without sacrificing the visual quality of watermarked artwork image.

References


31.

**Index Terms**

Computer Science  
Image Processing
Keywords

Digital Watermarking, Artworks, Color Prevalence Rate, DWT, SVD.