Abstract

Nowadays in watermarking applications Standard wavelets have certain limitations i.e. poor directional selectivity and property of shift invariance. As a complex number is having together real and imaginary parts, complex wavelet is also having real and imaginary parts which can aid us in overcoming these limitations. Dual-Tree Complex Wavelet Transform is the latest improvement and in this paper, a watermarking scheme has been projected on the base of Dual Tree Complex Wavelet Transform where DTCWT is initially applied to the host image, and it decomposes that image into eight real and eight imaginary sub-bands and then DTCWT is applied to the watermark image, it also decomposes the image into eight real and eight imaginary sub-bands. Finally watermarking rule is applied according to fusion principle.

References


Index Terms

Computer Science

Image Processing

Keywords

Watermarking, Complex Wavelet Transform.