

Abstract Details

Title: Enhanced Image Encryption using Fractional Fourier Transform

Authors: Sunil Kumari and Kavita Kathuria

Abstract: Image encryption is the process to convert an image to non-understandable form. The image encryption must be highly secured so that the un-authentic person can't get the original image. The paper proposes a technique that uses the scrambling of the DCT blocks of original image. Then the fractional Fourier transform makes the process highly secured. The resultant is highly random and the randomness of the image is shown using the entropy values. The proposed technique is better than the existing due to higher value of entropy.

Keywords: DCT, FRFT, image encryption, block scrambling.