Abstract

Yang et al. recently developed a user-friendly image-sharing scheme that shares images using many polynomials with different primes. Yang et al. modified the least significant bit (LSB) of original pixels to identify the prime number for sharing. However, the reconstructed image retains some noise. The scheme proposed in this work uses polynomials with different primes to generate pixel shadows without adjusting the LSBs of original pixels, such that the recovery process can reconstruct a high-quality original image using the Lagrange interpolation function.
User-Friendly Sharing System using Polynomials with Different Primes in Two Images


Index Terms

Computer Science

Image Processing

Keywords

Image sharing  secret sharing  secret image sharing  user-friendly shadow image