



Digital Watermarking Techniques in Curvelet and Ridgelet Domain (SpringerBriefs in Computer Science)

Channapragada Rama Seshagiri Rao, Munaga V.N.K. Prasad

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This book describes the design, development, and testing of a novel digital watermarking technique for color images using Magic Square and Ridgelet transforms. The novel feature of the method is that it generates and uses multiple copies of the digital watermark. The book describes how the method was tested for embedding digital watermarks into color cover images, resulting in very high PSNR value and yielding comparable results with existing watermarking techniques.

To reach this new method, eight different techniques are designed, developed and tested. First, the authors test two digital watermarking techniques based on encryption: Image Watermark Using Complete Complementary Code Technique (CCCT) and Image Watermarking Using CCC-Fast Walsh Hadamard Transform Technique (CCC-FWHTT).

Next, four digital watermarking techniques based on curvelet transforms are discussed: Image Watermarking Using Curvelet Transform (WCT), Watermark Wavelets in Curvelets of Cover Image (WWCT), Resized Watermark into Curvelets of Cover Image (RWCT), and Resized Watermark Wavelets into Curvelets of Cover Image (RWWCT).

Then, two final techniques are presented: Image Watermarking Based on Magic Square (MST) and Image watermarking based on Magic Square and Ridgelet Transform (MSRTT). Future research directions are explored in the final chapter.

Designed for professionals and researchers in computer graphics and imaging, Digital Watermarking Techniques in Curvelet and Ridgelet Domain is also a useful tool for advanced-level students.

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