

EMBEDDING AND REMOVAL OF VISIBLE WATERMARK IN DIGITAL IMAGES

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ABSTRACT

The project addressed the issue on visible watermarking and image filtering technique.

A digital watermark represents exclusively the copyright owner of the product. In image watermarking, the embedded watermark may be either visible or invisible. In visible watermarking, a secondary image, such that watermark is intentionally perceptible to a human observer.

So far, image processing techniques have been studied and applied in image watermarking by many scientific or commercial institutes. However, for the visible watermarking, most of the studies focus on the security issue of embedding.

In this project, the study did not only consider producing digitally visible watermarked images, but also applying suitable algorithms to test on the capability of removing the visible watermark. Test was conducted with simple watermarked images and progress to more complex ones.

Research on watermarking techniques and image filtering algorithm were the key concepts to complete this project. The project aimed to seek for the most efficient way to solve this problem by designing suitable algorithms for removal of visible watermarks.