A Novel Approach to Improve Invisibility and Robustness of a Digital Watermark in Copyright Protection

Abstract

Rapid penetration of internet and advancements in communication technology is a paved way to easy access of digital images. Nevertheless, these advancements also create ways for malicious users to pirate and sell the copyrighted content. Digital watermarking techniques have been deployed in combating the piracy issue. The current digital watermarking methods are facing the problems in maintaining invisibility, robustness, capacity and security. In this article, authors are analyzing the various popular algorithms used in digital watermark of copyright protection and propose a novel approach by combining three such algorithms aiming to increase the invisibility and robustness of the watermarked image. The experimental results, exemplifies much increase in invisibility and a nominal increase in robustness.

References

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