Abstract

Embedding capacity and Perceptibility are prime issues in relation to data hiding techniques. There had been techniques for hiding data in reversible fashion. A new term 'Pixel-QUAD' is coined in this paper, instead of commonly used 'Pixel-Pair'; for embedding the watermark data. This paper presents a high embedding capacity technique for reversible data hiding based on a Pixel-Quad approach. The proposed methodology for the technique is quite general and is applicable to any reversible watermarking scheme; Demonstration is done for a class of reversible watermarking schemes which operate on a disjoint group of pixels. An attempt is also made to propose an algorithm to estimate the embedding capacity iteratively for a multi-pass scheme.

References

- Rushikesh Borse and Subhasis Chaudhuri. Computation of embedding capacity in

Index Terms

Computer Science Security

Keywords

Data hiding Reversible watermarking Embedding capacity Pixel-Quad Capacity estimation.