Abstract

Reversible or lossless data embedding is a method that embeds information into an image in a reversible behavior. The histogram alteration based reversible data hiding method using causal window is planned which predicts the embedding level with the help of the pixel significance, edge significance. Using this data embedding level the data is embedded into the pixels. The pixel level modification considering the human visual system characteristics is also made to decrease the distortion caused by data embedding. This drastically improves the information embedding capability along with greater visual quality. The experiment outcome and performance comparison are presented to express the validity of the proposed algorithm.

References

2. W. Hong, T. S. Chen, and C. W. Shiu, “Reversible Data Hiding Based on Histogram


Index Terms

Computer Science, Information Sciences
Keywords

Pixel-Pair-Mapping (PPM), Reversible Data Hiding (RDH), Difference-Pair-Mapping (DPM), EC (Embedding Capacity).