

ENHANCED REVERSIBLE WATERMARKING OF MEDICAL IMAGES IN LOSSY ENVIRONMENT

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ABSTRACT

Medical image data now a day's exchange from one place to another place. Due to noisy channel and unintentional attacks, even a lossless reversible watermarking will remain no more lossless. So practically all the lossless methods are actually lossy, which reflects when images are restored reversibly. We have proposed algorithm based on histogram shifting and pixel mapping supported by k mean clustering which can recover the actual image from these lossy channels and is robust to unintentional attacks. We have performed all the embedding in the region of non interest to maintain the acceptability of the medical image.

KEYWORDS: Watermarking, Histogram, Pixel Mapping, IWT, K-Mean Clustering