Abstract

Most commonly watermarking is done for authentication purposes. Due to the widespread use of medical images for telemedicine applications the watermarking process gains more attention in the medical field i.e. for secure transmission of medical images from one hospital to another, for presenting the image as court evidence etc. This paper gives a comparative analysis on applying the watermark on the diagonal matrix of the SVD decomposed. The usefulness of SVD in watermarking applications and mathematical models are also given briefly. The performance is verified using PSNR, Pearson Correlation Coefficient and Image Quality Index.

References

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Index Terms

Computer Science

Security
Keywords
Watermark  Singular Value Decomposition  PSNR  Pearson Correlation Coefficient

Image Quality Index