Copyright protection of digital media is the very first application that comes to mind for digital
watermarking. In the past, duplicating artwork was quite complicated and requires great efforts
to create the work looks just like the original. However, in present digital world it is very simple
for anyone to duplicate or manipulate digital data. The digital image watermarking allows the
watermark to be embedded visibly or invisibly in the original image for identification of the
owner. This concept can also be used for other media, such as digital video and audio.

Telemedicine is a well-known application of digital watermarking. In this application security &
authentication for medical data is very important. Hiding the data into the medical image provide
the security over the public network. Authentication verifies whether the image certainly belongs
to the right patient. Authentication of medical data used for further diagnosis and reference.

This paper focused on the methods of medical image data hiding for security and
authentication. High capacity data hiding is achieved with CDCS (Class Dependent Coding

Security in Telemedicine using DWT-CDCS

Embedding watermarks in RONI (region of non interest) protects the ROI (region of interest) of medical image, which is diagnostically important part of medical images. Segmentation plays an important role in medical image processing for separating the ROI from medical image.

References

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Index Terms

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