Abstract

The primary focus in today’s world is to secure digital images. The digital images are an integral entity in the entire health care management process, from scans to diagnosis to treatment and beyond. While the patient and the doctor(s) are engaged in the process, the digital images of the patient are available and accessible to many. The multi-parameter watermarking enables secure and robust method to enhance the complexity of the system to avert malicious attack. The ‘Privacy’ of the patient data is enhanced by means of an algorithm with multi-parameter watermarking; the Watermark designed will provide the ‘hard-wall’ against any unscrupulous attack on the images/system. Implementation outcome will be discussed; algorithm designed and developed to demonstrate a novel watermarking method by defining various parameters for watermarking. Deploying such watermarking methods into tools and procedures will help enhance the ‘Privacy’ and ‘Fiduciary’ relationships with which the patient’s data is shared between patient and a doctor. It is good to include a combination of methods, visible and invisible watermarks, open and blind watermarks to deceive the unauthorized user or an attacker. Designing the approach which embodies different parameters by using random
sequences while the image is sliced with a key unknown to other than the owner (the provider) and actual consumer(s) is critical in providing security to the digital images.

References


3. MATLAB from MATHWORKS http://in.mathworks.com/products/matlab/


Index Terms

Computer Science  Image Processing

Keywords
