

Accepted Manuscript

Encryption and Watermark-Treated Medical Image against Hacking Disease—An Immune Convention in Spatial and Frequency Domains

C. Lakshmi , K. Thenmozhi , John Bosco Balaguru Rayappan ,
Rengarajan Amirtharajan

PII: S0169-2607(16)31300-1
DOI: [10.1016/j.cmpb.2018.02.021](https://doi.org/10.1016/j.cmpb.2018.02.021)
Reference: COMM 4638



To appear in: *Computer Methods and Programs in Biomedicine*

Received date: 21 November 2016
Revised date: 8 February 2018
Accepted date: 26 February 2018

Please cite this article as: C. Lakshmi , K. Thenmozhi , John Bosco Balaguru Rayappan , Rengarajan Amirtharajan , Encryption and Watermark-Treated Medical Image against Hacking Disease—An Immune Convention in Spatial and Frequency Domains, *Computer Methods and Programs in Biomedicine* (2018), doi: [10.1016/j.cmpb.2018.02.021](https://doi.org/10.1016/j.cmpb.2018.02.021)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Joint DWT watermarking and fuzzy encryption is employed to secure the medical image
- A novel fuzzy composition based diffusion is proposed
- DWT is utilized for watermarking the patient's investigation report in DICOM image
- Data compression is achieved through indirect fuzzy logic encoding

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6890925>

Download Persian Version:

<https://daneshyari.com/article/6890925>

[Daneshyari.com](https://daneshyari.com)