

IMAGE COMPRESSION ON SCANNING TECHNIQUES

T. Arumuga Maria Devi¹ Student² K.K Sherin³ Mariadas Ronnie C.P⁴
Assistant Professor, Dept. of CITE PG Scholar PG Scholar PG Scholar

*Centre for Information Technology and Engineering,
Manonmaniam Sundaranar University, Tirunelveli*

¹Email: deviececit@gmail.com. Phone No:9677996337

² Email: nith.niya@yahoo.co.in Phone No:9791245929

³Email: sherinkk83@yahoo.com. Phone No:9442055500

⁴Email: mariadasronnie@yahoo.co.in. Phone No:8089713017

ABSTRACT

The approach of denoising and the compression in the wavelet domain using the Discrete Wavelet Transform and Karhunen-Loeve Transform. The denoising techniques are used to remove the additive noise while retaining as much as possible the important image features. This has been done with the help of wavelet thresholding because the wavelet provides an appropriate basis for separating noisy pixels from the image pixels. The resulting denoised image is compressed using the Karhunen-Loeve Transform as it is a more efficient compression scheme when combined with the different scanning methods. This method can achieve vastly superior compression rates when compared to other methods.

KEYWORDS: Image compression, Karhunen-Loeve Transform, Row order scan, Morton's scan, Denoising.