

ABSTRACT

Digital image technology and internet in this time have given various amenity to its consumer to access and also distribution various information in digital format. Millions of digital information able to be seen, to be taken even manipulation freely for the purpose of certain which have the character of negativity. This matter of course harm owner of information. Because of that, needed a way in order the information awake its authenticity although manipulation. Technology of watermarking trying to answer that needed.

Reliable watermarking have to highly of robust and hidden. Existence of trade-off for robust ad hidden watermarking, it causes difficult to get technique of watermarking reliable. Former study indicate that technique of watermarking with ICA-Wavelet method highly for robust but for hidden which not too good.

Technique of scrambling image watermarking applied to produce better hidden and robust reliable watermarking. Scrambling method used for scramble the image information in order sent can more secure. There is three tested simulation, that is; watermarking without wavelet transform, watermarking with wavelet transform just on host image with info image which only a half from host image, and the third watermarking with entirety wavelet transform.

From tested simulation, scheme at simulation of watermarking with info image which only a half from host image result the best technique. From result of test at this scheme have value of SNR info image tired of mean 60 dB with tired MSE 1.864 %. For test of quality factor compression 90 and 100 result MSE equal to 6.21 % and 1.58 %. In test without noise, Image MSE of info result equal to 0 %. And also assess by subjective, MOS show average value 4.86 (excellent category) that is have high quality, nice to seen without troubles meaning.