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RESEARCH ARTICLE

A Wavelet Transform Based Secure Data Transfer Using Blowfish Algorithm

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Abstract-- The modern era has seen ample number of cryptographic and stenographic techniques to transmit and receive data in a secure and confidential manner. In our paper we use a multi resolution wavelet domain by collaborating the concepts of steganography and cryptography. Initially we use a modified blowfish algorithm and will embed the encrypted message into an image. At the later part of the technique discrete wavelet transform is used so that the stagnated image is transformed into approximation and detailed image. The final reduced image is subjected into the receiver and the vice versa of the technique is used to obtain the plain text. The experimental results of this technique is unanimous and it's found to be less suspicious.

Keywords: *Blowfish, Cryptography, F-function, multi-resolution, security, steganography, wavelet*

Full Text: <http://www.ijcsmc.com/docs/papers/February2014/V3I2201499a45.pdf>