



RESEARCH ARTICLE

HIGH IMPERCEPTIBLE ENCODING FOR COMPUTER NETWORKS SECURITY

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Abstract— *Today, computer and network technologies provide easy-to-use communication channels for steganography. In most algorithm used to secure information both steganography and cryptography are used together to secure a part of information. Steganography has many technical challenges such as high hiding capacity and imperceptibility. Digital Steganography exploits the use of a host data to hide a piece of information in such a way that it is imperceptible to a human observer. Wavelet transforms that map integers to integers allow perfect reconstruction of the original image. Hence, we proposed an algorithm that embeds the message bitstream into the LSB's of the integer wavelet coefficients of a true-color image. The algorithm also applies a preprocessing step on the cover image to adjust saturated pixel components in order to recover the embedded message without lose. Experimental results showed the high invisibility of the proposed model even with large message size.*

Key Terms: - *Information hiding; steganography; integer wavelets; high bit-rate encoding*

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