



RESEARCH ARTICLE

Fast and Secure Data Transmission using Symmetric Encryption and Lossless Compression

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Abstract— With the fast progression of data exchange in electronic way, information security is becoming more important in data storage and transmission. While storing and transmitting multimedia data are not easy and they need large storage devices and high bandwidth network systems. Compression and encryption technologies are important to the efficient solving of network bandwidth and security issues. This paper focus on dual approach of compression and security where compression is achieved through lossless algorithm (either Huffman coding or LZW) according to size and type of image data and compressed data is encrypted using traditional DES Algorithm.

Indexed Terms: - encryption, compression, Huffman, decompression, BMP image.

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