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COMPLEXITY ANALYSIS OF IMAGE ENCRYPTION TECHNIQUE USING PUBLIC KEY

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Abstract

The presence of computer networks has prompted new problems with security and privacy. Having a secure and reliable means for communicating with images and video is becoming a necessity and its related issues must be carefully considered [1]. Hence, network security and data encryption have become important. The images can be considered nowadays, one of the most usable forms of information. Image and video encryption have applications in various fields including Internet communication, multimedia systems, medical imaging, telemedicine and military communication. So image encryption plays a very crucial role in network security. Image encryption is classified in two categories Private key cryptography and Public key cryptography. This paper focus image encryption using public key of 128* 128 block [10]. In the case of public key image encryption sender and receiver use different key for encrypting and decrypting.

Keywords: Image, Encryption, Decryption, Public key, Private key.