ABSTRACT

images are the set of values that are distributed in a vector which represents the real world objects. Therefore sometime these images are much sensitive and contain private and essential information. The security of such data is a need of computational and security.

Providing security for Medical data such as X-Ray, ECG, MRI, etc. has gained immense importance due to their sensitive nature. The penetration of Internet in all walks of life has made data sharing a necessity amongst hospital networks all over the globe which are in need of security system for their online data exchange. The usage of geometrical objects for encryption is a young area. The present research work explores one such option; the use of Pythagoras’s theorem for right angled triangle to encrypt medical images. The work proposes a crypto-system with considerable security with one requirement– the use of a secure channel for key exchange.