With the advent of cloud storage and increase in transmission images through internet, images are more vulnerable to attacks of various hackers. A lot of private images are leaked from the cloud. Information security has become a major concern. Also, as the use of digital techniques for transmitting and storing images are increasing, it becomes an important issue that how to protect the confidentiality, integrity and authenticity of images. Encrypting the images is one way of dealing with this threat. Image encryption techniques try to convert original image to another image which is hard to decipher so that the image is kept confidential between users, in other words, it is essential that nobody will get to know the content without a key for decryption. This paper proposes a new approach to image encryption using circular shift in transform domain.

References


Index Terms

Computer Science    Security

Keywords

Circular shift, Discrete Cosine Transform