Abstract

Barcode are used for storing the different type of data. Today different type of barcode is used for different purpose. In market lots of barcode are available. There are three type of barcode i.e. one dimensional barcode (1D), two dimensional barcode (2D) and three dimensional barcode (3D). In this paper we provide a secure and optimal approach for implementing quick response code in two dimensional barcode. Quick response code is 2D barcode. Now days, it is used for security purpose. Now a day's QR code is used for publically to save the information. But our main purpose is that information will be secured which are stored in QR code. So we use AES algorithm to encrypt the data. But the maximum capacity of QR code is
3KB. So store the more information we compressed the data or image using compression algorithm and after that create QR code. So we use AES algorithm to encrypt the data and use the lossy compression to compress the image. In this paper, we consider I-Card System for a private secret agency as a real case scenario i.e. implementation of our work.

References

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Index Terms

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Security

Keywords

Qr Code  Data Compression  Lossless Compression  Aes Algorithm