

A DETAILED ANALYSIS OF QR CODE AND A TECHNIQUE TO GENERATE QR CODES FOR CRYPTOGRAPHY

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ABSTRACT

QR codes or Quick Response codes were first created by Denso Wave Company. The QR codes are basically 2-D barcodes and have several advantages over the conventional barcode. A QR code is faster, having more capacity to store information, not direction oriented as well as resistant to distorted systems. Along with numeric and alphanumeric data, it can also encode Kanji and Kana characters. These QR codes can be easily scanned by using scanners that can even be available on the Smart phones. QR codes thus not only have wide range of advantages but also can be used by a larger class of people. QR codes can be used to store large information and retrieve the information even if there is a little distortion. Thus, as compared to other data matrices, QR code is a better, newer and more efficient technique. Our paper gives step-by-step procedure that can be implemented to generate a QR codes. The paper also gives an overview of the QR codes, its applications and advantages.

KEYWORDS: Advantages, Error Correction, Generation of QR Codes