A New Two-level Information Protection Scheme based on Visual Cryptography and QR Code

At present, the medical management technology has many secure drawbacks, such as, the X-ray transparency leaks user privacy, access to view the medical privacy record is not strictly controlled, infusion confirmation is without technical authentication, patient wrist identity (ID) is easy to be forged, payment is not convenient and so on. This paper first analyzes the present situation of medical management technology and its security defects, and then discusses the possibility of applying quick response (QR) code to secure medical management and improve medical management security through utilizing visual secret sharing (VSS) technology and the convenience of QR codes. Finally, aiming at overcoming the above secure defects in the current medical management technology, several schemes based on QR code secure technology are designed or applied to improve the security of the above medical management applications

Domain: Image Processing / Security Application
Technology: MATLAB