



RESEARCH ARTICLE

Multi-Share Crypt-Stego Authentication System

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Abstract— It is very common to use text password for authentication. But text passwords are easy to forge. Hence, there is always a need to find more secure techniques for password authentication. This paper, presents a composite structure of Visual cryptography and Steganography with applications associated with QR (quick response) codes and banking applications. QR codes are the type of 2D barcode generally used by mobile phone user for instant access to web pages using hyperlink associated with that code. But, there is always a threat of tampering of QR code. In banking application, there is possibility of forging text passwords or fabricating frauds are common. Finding the scope in such area, it is believed that visual cryptography and Steganography can provide the better solution.

Indexed Terms: - Visual cryptography (VC); quick response (QR) codes; steganography; reversible data hiding; histogram modification; difference expansion.

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