Abstract

The high increase in the transmission of digital data over secured and unsecured communications channels poses a lot of security and privacy concerns to both the transmitter and the receiver. Many operations engaged today in urban and warfare, be they for construction, monitoring of plants, high voltage lines, military, police, fire service, intelligence etc. engages the use of surveillance systems that transmit sensitive data to and fro the command centre to the remote areas and this data in transmission needs to be secured. In this paper, we
proposed a hybrid cryptographic and digital watermarking technique for securing digital images based on a Generated Symmetric Key. The cryptographic encryption technique made use of both pixel displacement and pixel encryption in securing the images that are to be stored or transmitted across secured and unsecured communications. The digital watermarking technique was used to authenticate the image. The programming and implementation was done using MATLAB.

References

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Index Terms

Computer Science

Image Processing
Keywords
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