Abstract

With the increase in structural complexities in modern cities, many operations, be they military, police, fire service, intelligence, rescue, or other field operations, require localization services and online situation awareness to make them effective. The digital data collected from such systems are sensitive hence security concerns regarding the transmission of such digital data across secured and unsecured communication channels needs to be secured. In this paper, we proposed a hybrid cryptographic encryption technique for securing Surveillance digital images.

data in Mobile Urban Situation Awareness System using RSA public-key encryption cryptosystem and RGB pixel displacement. The implementation was done using MATLAB simulation software.

References

- He, Jun; Jun Zheng; Zhi-bin Li; Hai-feng Qian, "Color Image Cryptography Using
- Prema, G.; Natarajan, S., &quot;An enhanced security algorithm for wireless application using RSA and genetic approach,&quot; Computing, Communications and Networking Technologies (ICCCNT),2013 Fourth International Conference on, vol., no., pp. 1,5, 4-6 July 2013 doi: 10. 1109/ICCCNT. 2013. 6726679
- Bansod, S. P.; Mane, V. M.; Ragha, L. R., &quot;Modified BPCS steganography using Hybrid cryptography for improving data embedding capacity,&quot; Communication, Information & Computing Technology (ICICT), 2012 International Conference on, vol., no., pp. 1,6, 19-20 Oct. 2012 doi: 10. 1109/ICICT. 2012. 6398199
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Digital images  RSA  cryptography  pixel displacement