Abstract

The security of network and the network data is primary aspect of the network providers and service providers. Therefore during the data exchange the cryptographic techniques are utilized for securing the data during various communications. On the other hand the traditional cryptographic techniques are well known and the attackers are known about the solution. Therefore new kind of cryptographic technique is required which improve the security and complexity of data cipher. In this paper a hybrid cryptographic technique for improving data security during network transmission is proposed and their implementation and results are reported. The proposed secure cryptographic technique promises to provide the highly secure cipher generation technique using the RSA, DES and SHA1 technique. The implementation of the proposed technique is provided using the JAVA technology and their performance in terms of space and time complexity is estimated and compared with the traditional RSA cryptography. The proposed cryptographic technique found the efficient and improved cipher text during comparative performance analysis.
A Hybrid Cryptography Technique for Improving Network Security

References

4. Seyed Mohammad Seyedzadeh, Sattar Mirzakuchaki, “A fast color image encryption algorithm based on coupled two-dimensional piecewise chaotic map”, & 2011 Elsevier B.V. All rights reserved.
8. Hybrid Compression Encryption Technique for Securing SMS Tarek M Mahmoud, Bahgat A. Abdel-latef, Awny A. Ahmed & Ahmed M Mahfouz
9. HexiMcEliece Public Key Cryptosystem K. Ilanthenral* and K. S. Easwarakumar Department of Computer Science and Engineering, Anna University, Chennai 600 025, India

Index Terms

Computer Science
Security

Keywords

Data security, Network transmission, Cryptographic security, Data exchange, Hybrid
cryptography, RSA, DES and SHA1.