Abstract

This paper starts with a brief introduction of the different coordinate systems prevailing in cryptography, aims in developing security measures which could save at least some amount of time in the execution processes. For this purpose the sextic curve and the probability symmetric curve are considered. Simulation exercises are carried out for both and it is proved that in both the cases the time taken for encryption and decryption is slightly lesser than that for RSA and ECC. On the whole this study brings out the new system for encryption and decryption with higher level of secrecy and lesser amount of time.

References

- Kanniah, Samsudin. 2007. Multi-threading elliptic curve cryptosystems. Proceedings of
Telecommunications and Malaysia International conference on communications, 134-139.

**Index Terms**

Computer Science Security
Keywords
SCC  PSCC  Point Addition  Point Doubling