Quantum key distribution can provide sophisticated solution for efficient authentication in wireless mesh networks. In quantum cryptography, the key is created during the process of key distribution, where as in classical key distribution a predetermined key is transmitted to the legitimate user. The most important contribution of quantum key distribution is the detection of eavesdropping.

References

- "A Survey of Quantum Key Distribution Protocols"; Mobin Javed and Khurram Aziz NUST School of Electrical Engineering and Computer Science
- "Authentication in Wireless Mesh Networks"; Raphael Frank
- "A Symmetric Key Cryptographic Algorithm"; Ayushi, Lecturer, Hindu College of Engineering
Effective User Authentication using Quantum Key Distribution for Wireless Mesh Network

- "Public Key Cryptography Applications Algorithms and Mathematical Explanations", Anoop MS
- "Wireless mesh networks: a survey"; Ian F. Akyildiz a, Xudong Wang b, Weilin Wang b
- "Quantum Key Distribution Protocols and Applications", Sheila Cobourne

Index Terms

Computer Science   Security

Keywords

Authentication  Bb84 Protocol  Cryptography  Eap-tls  Eap-ttls  Quantum Key Distribution  Wmn