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### **RESEARCH ARTICLE**



# Secure Key Exchange over Internet

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***Abstract-*** Due to advances in technology and communication, it requires more effort to ensure security. It is essential that every organization has the right level of security. Authentication in security had emerged to be an essential factor in the key establishment over internet. The DIKE (Deniable Internet Key Exchange) protocols add novelty and new value to the IKE standard. In recent communication systems, as there is more and more use of internet, the security services have become essential. Key-exchange in Diffie–Hellman key-exchange (DHKE) is among the core cryptographic mechanisms to ensure network security.

***Keywords - Authentication; Key-exchange; DHKE; DIKE; IKE***

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