Secure and Energy Efficient Communication in Wireless Sensor Network

Abstract

Cryptographic data transmission from one node to another node in a secure way is the challenging goal in Wireless Sensor Network (WSN). In WSN security is achieved through Message Authentication Code (MAC) as well as Encryption algorithm. Consolidation of MAC and Encryption strategy will provide the high security for data or message which is used for communication. In communication system, confidentiality of data and cost of transmission of data are the key aspects. Along with the security, energy is also the major challenge in WSN. In WSN sensor nodes have the small amount of resources such as bandwidth, power etc. Hence conservation of energy and establishment of security are two major parameters in WSN. This paper proposes the details of the shortest path generation algorithm, which efficiently satisfies mentioned constraints and security is established using ECC algorithm.

References

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