Abstract

Mobile Ad Hoc Network (MANET) is a type of wireless network without a fixed topology consisting of a set of self-organized nodes which are randomly, frequently and unpredictably mobile. MANET has a wide range of applications in civilian and military systems because of its infrastructureless nature and rapid self-configuration capability. MANET is an open environment and it is susceptible to many security attacks due to dynamic topology and lack of centralized monitoring authority. Anonymous routing protocols conceal the identities about the route, source and destination to provide security and privacy from intruder’s attacks. This paper provides an overview of most efficient anonymous routing protocols in MANET and examines the security efficiency of these protocols. The parameters considered for the comparative study of these protocols are the number of actual participating nodes in the network, latency in packet transmission, packet delivery rate and the transmission cost. The protocols taken into account include, AO2P, ALARM and ALERT.

References

- A. Pfitzmann and M. Hansen, "Anonymity, Unlinkability, Undetectability,"


A Study of Efficient Anonymous Routing Protocols in MANET

Index Terms

Computer Science

Wireless

Keywords

Mobile Ad Hoc Networks  security  anonymity  routing protocols.