Abstract

Security and mobility is always a wide research area of the mobile ad hoc network. In this paper a new technique is proposed to apply secure as well as mobility aware routing in mobile ad hoc networks. For applying security the packet forwarding behaviour of the nodes is used and for mobility speed and the relative direction of the node is taken. The algorithm is implemented on AODV protocol and checked the final simulation results against the normal AODV and trust based AODV (that uses only forwarding behaviour of the nodes) using NS2. The simulations results show that proposed technique can prevents attacks from the malicious nodes and also improves the performance by using mobility aware routing.

References

- Carlos de Morais Cordeiro and Dharma P. Agrawal, "Mobile ad hoc networking& quot;, OBR Research Center for Distributed and Mobile Computing, ECECS
- Djmel djenouri and Iyes khelladi, "A survey of security issues in mobile ad hoc and
sensor networks”; IEEE communications surveys & tutorials, fourth quarter 2005
- Sajal Sarkar, Raja Datta,”A Mobility factor based path selection scheme for mobile ad hoc networks”; IEEE, 2012

Index Terms

Computer Science

Wireless
Keywords
MANETs trust AODV QOS