An Efficient Intruder Avoidance Method for MANETs

Abstract

Among all the up to date wireless networks, Mobile Adhoc Network (MANET) is one amongst the foremost necessary and distinctive applications. Unfortunately, the open medium and remote distribution of MANET create it at risk of numerous kinds of attacks. So, it is crucial to develop efficient intrusion-detection mechanisms to protect MANET from attacks. In this paper, we define solid privacy requirements regarding malicious attackers in MANET. We propose and implement a new intrusion-avoidance system specially designed for MANETs. Compared to contemporary approaches, it demonstrates higher malicious-behaviour-avoidance rates in certain circumstances while does not greatly affect the network performances.

References

- "EAACK-A Secure Intrusion-Detection System for MANETs", Elhadi M. Shakshuki, Senior Member, IEEE, Nan Kang, and Tarek R. Sheltami, Member, IEEE, 2013.
- Securing Ad Hoc Networks, Lidong Zhou and Zygmun J. Haas.
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- "On Intrusion Detection and Response for Mobile Ad Hoc Networks", James Parker, Jeffrey Undercoffer, John Pinkston, and Anupam Joshi.
- "Enhanced Intrusion Detection System for Discovering Malicious Nodes in Mobile Ad hoc Networks", Nidal Nasser and Yunfeng Chen.
- "Anonymous Communications in Mobile Ad Hoc Networks", Yanchao Zhang, Wei Liu and Wenjing Lou.

Index Terms

Computer Science Wireless

Keywords

MANET  Black hole Attack  AODV  Mali_AODV  SDT