Security is an essential feature for wired and wireless network. But due to its unique characteristics of MANETs, it creates a number of consequential security challenges to network. MANETs are vulnerable to various attacks, blackhole is one of the possible attack. In this paper, we represent an intrusion detection system for MANETs against blackhole attack using fuzzy logic. Our system successfully detects the blackhole in the network and this information is passed to other nodes also. We also provide a detailed performance evaluation based on various network parameters. Our results show that the proposed system not only detects the blackhole node, but improves the performance of AODV under the blackhole attack.
Fuzzy Logic Based Intrusion Detection System against Blackhole Attack on AODV in MANET

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