

Solutions to Black Hole Attacks in MANETs

Submitted by aekwall on Tue, 03/09/2021 - 12:37pm

Title	Solutions to Black Hole Attacks in MANETs
Publication Type	Conference Paper
Year of Publication	2020
Authors	Oakley, I.
Conference Name	2020 12th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP)
Date Published	jul
Keywords	Ad hoc networks , AODV , Black hole attack , black hole attack solutions , Black hole attacks , black holes , Dsr , Energy efficiency , importance each day , MANET , mobile ad hoc networks , mobile computing , numerous routing protocols , OLSR , original routing protocol , pubcrawl , Resiliency , Routing , Routing protocols , RPL , Scalability , security , self-organising networks , telecommunication security , Testing , Throughput , ZRP
Abstract	Self-organising networks, such as mobile ad-hoc networks (MANETs), are growing more and more in importance each day. However, due to their nature and constraints MANETs are vulnerable to a wide array of attacks, such as black hole attacks. Furthermore, there are numerous routing protocols in use in MANETs, and what works for one might not for another. In this paper, we present a review of previous surveys of black hole attack solutions, followed by a collation of recently published papers categorised by original routing protocol and evaluated on a set of common metrics. Finally, we suggest areas for further research.
DOI	10.1109/CSNDSP49049.2020.9249524
Citation Key	oakley_solutions_2020



[security](#) [RPL](#) [Scalability](#) [telecommunication security](#) [Resiliency](#) [pubcrawl](#) [Routing protocols](#) [Routing testing](#) [MANET](#) [mobile ad hoc networks](#) [Throughput](#) [Ad hoc networks](#) [mobile computing](#) [Energy Efficiency](#) [Black hole attack](#) [black holes](#) [AODV](#) [Dsr](#) [OLSR](#) [Black hole attacks](#) [black hole attack solutions](#) [importance each day](#) [numerous routing protocols](#) [original routing protocol](#) [self-organising networks](#) [ZRP](#)
