



PRIVACY PROTECTION AGAINST WORMHOLE ATTACKS IN MANET

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Abstract

The USOR offers unobservability as promised. Though information disclosure is unavoidable for colluding insiders, and the adversary knows some keys, the information that the colluding insiders can obtain is largely restricted by USOR. In the padded USOR, all packets including RREQ, RREP packets and other control packets are padded to 128 bytes. Due to the packet padding, performance of the padded USOR is obviously downgraded, but the padded USOR still achieves satisfactory performance: more than 85% delivery success and about 250ms delivery latency. And also it not only provides strong privacy protection, it is also more resistant against attacks due to node compromise. Finally, achieves stronger privacy protection than existing schemes like MASK.

Full Text: www.ijcsma.com/publications/january2014/V2I107.pdf