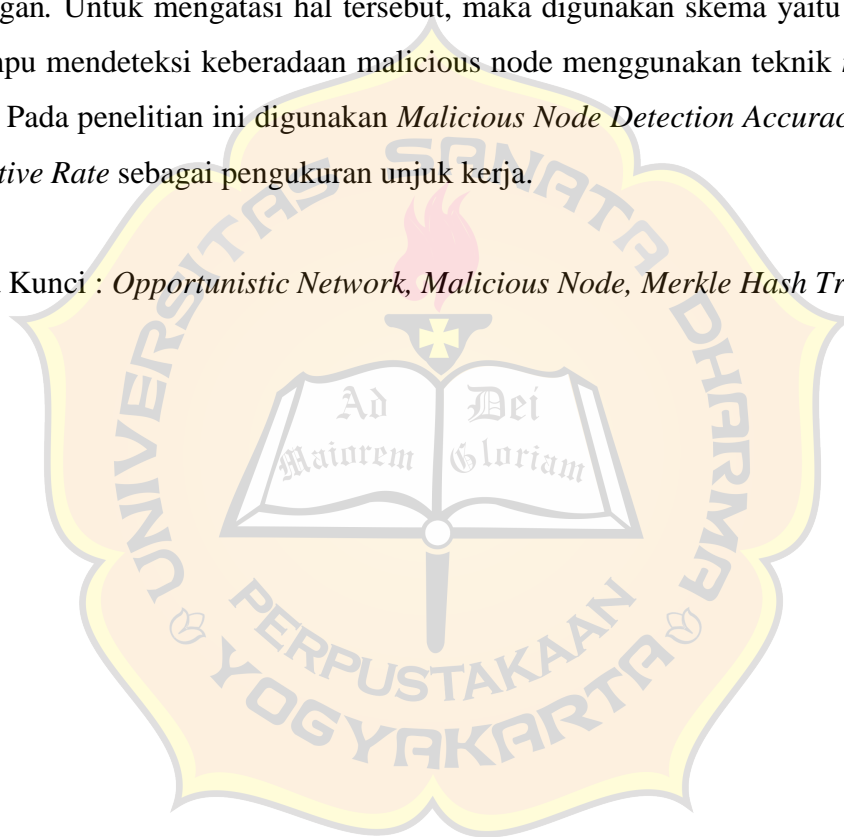


ABSTRAK

Opportunistic Network (OppNet) adalah jaringan dengan nodenya terhubung hanya untuk sementara dan topologi jaringan bersifat dinamis karena mobilitas masing-masing node. Node secara oportunistik berkomunikasi satu sama lain dalam bentuk “*Store-Carry-Forward*” saat node melakukan kontak. Berdasar karakteristik tersebut, OppNet rentan terhadap ancaman *packet dropping* yang disebabkan oleh *malicious node* yang dapat menurunkan unjuk kerja jaringan. Untuk mengatasi hal tersebut, maka digunakan skema yaitu setiap node mampu mendeteksi keberadaan *malicious node* menggunakan teknik *merkle hash tree*. Pada penelitian ini digunakan *Malicious Node Detection Accuracy* dan *False Positive Rate* sebagai pengukuran unjuk kerja.

Kata Kunci : *Opportunistic Network, Malicious Node, Merkle Hash Tree.*



ABSTRACT

Opportunistic Network (OppNet) is a network that each node are connected temporarily, and the characteristic of the network topology is dynamic due to the mobility of the node. Nodes opportunistically communicate with each other in the form of “Store-Carry-Forward” when they come into contact with each other. Based on OppNet characteristic, OppNet are exposed to packet dropping attack caused by malicious node that decrease network performance. To over come this, we use schem which each node can detect malicious node using Merkle Hash Tree Technique. In this study, Malicious Node Detection Accuracy and False Positive Rate will be used as performance measurements.

Keywords : Opportunistic Network, Malicious Node, Merkle Hash Tree.

