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NOVEL METHOD TO PROVIDE SECURITY AND MAXIMUM THROUGHPUT IN WIRELESS MESH NETWORKS

K. SUNDARAMOORTHY[1] AND
S. SRINIVASA RAO MADHANE[2]
[1] Department of Computer Science and Engineering,
Agni College of Technology
[2] Adhiparasakthi College of Engineering,
Kalavai, Tamilnadu, India

Abstract

Secure routing for wireless mesh networks has focused on metrics that estimate link quality to maximize throughput. In this paper, the novel method to provide security and maximum throughput is introduced. To route the data packets securely and also to provide high throughput in wireless mesh networks, we propose a novel method called as Refuge based privilege key distribution scheme. In this scheme, Each and every node present in the network is authenticated with each other by sending authentication request. The authentication key is generated by considering the distance between the nodes and the energy of that node. While routing the data packets the source node forward the data only through the authenticated nodes. The authenticated next forwarder is selected by its key value as it considers the energy and the distance. The performance of our proposed scheme is analysed by using the network simulator.