Efficient Routing Technique in Heterogeneous Wireless Network

Abstract

The paper discusses an efficient algorithm for the routing in the heterogeneous wireless network. The advancement in the technology and introduction of LTE needs the interfacing with different types of environment. Due to different characteristics of each network the performance of the homogeneous routing protocols degrades. The paper modifies the AODV routing and introduces the HAODV for the heterogeneous environment. In the HAODV packet format, one field named rc i.e. routing cost is added to evaluate the routing cost. The rc is calculated based on the link quality and the traffic demand. The performance analysis is done by using various parameters i.e. PDR, E2E delay and the throughput. The simulation result shows that the algorithm is better than the existing algorithms.

References

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2010, pp. 189-196.


Index Terms

Computer Science  Wireless
Keywords

Routing cost, link quality, traffic demand, AODV, RREQ