Abstract

Mobile computing has become an indispensable way of life in recent years. Recent advancement in Mobile phones and other handheld devices have enabled them of using various types of networks, which were meant for computers only. The integration of such devices into heterogeneous grids has emerged new research challenges. Different types of devices with heterogeneous interfaces and computational powers require versatile mechanisms to cope with various types of applications and situations. This paper presents the performance analysis of reactive and proactive routing protocols used for mobile ad-hoc grids in e-health applications. The performance of four protocols is analyzed in terms of routing load and response time. Further, the feasibility of heterogeneous interfaces in mobile ad-hoc grid is analyzed in terms of energy consumption.

References

- S. Raman, A. Ganz and R. R. Mettu, "Fair bandwidth allocation framework for heterogeneous multi-radio wireless mesh networks," in Broadband Communications, Networks


- CE Perkins, P Bhagwat “Highly dynamic Destination-Sequence Distance-Vector routing (DSDV) for mobile computers”, ACM SIGCOMM Computer Communication Review, 1994


- GRP Opnet modeler documentation, www.opnet.com


Index Terms

Computer Science Wireless

Keywords

Mobile Grid Routing Protocols E-Health Ad-hoc Grid Mobility Heterogeneous Grid