عنوان مقاله:

Hotspot Random Waypoint: A New Mobility Model for Hybrid WLAN/Cellular Systems

محل انتشار:

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خلاصه مقاله:

Wireless communications and networking have had tremendous developments in recent years. Recently, some proposals have been presented in literature to build hybrid structures out of different wireless systems. The Third Generation Partnership Project (3GPP) will build up a standard architecture for co-operating cellular-WLAN systems. Due to high complexity of mobile networks, the proposed protocols and algorithms for these systems are usually evaluated by simulations. In these simulations, when real mobility is considered, a certain mobility model must be used. A number of mobility models have been proposed for ad hoc networks. The performance of hybrid cellular networks should be evaluated either by simulation or by analytical modeling. Simulations of these networks need special mobility models. In this paper, we propose a mobility model based on the original version of the “random waypoint”, which is applicable in simulation of the hybrid WLAN/Cellular systems. Performance of the proposed .mobility model is analyzed through simulations and analytical modeling

کلمات کلیدی:

Mobility model, Hybrid wireless networks, Random waypoint, Hotspot