

DEVELOPMENT OF AN OPTIMIZED AND EFFECTIVE MOBILITY MODEL FOR MANETS

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Abstract

To produce a real-world environment within which an ad hoc network can be formed among a set of nodes, there is a need for the development of realistic, generic and comprehensive mobility models. Simulation environment is an important tool for the evaluation of new concepts in networking. Here, we show that the proposed mobility model has a significant impact on network performance, especially when compared to other mobility models. The mobile ad hoc networks depend on understanding protocols from simulations, before these protocols are implemented in a real-world setting. In this paper, we present a new mobility model for mobile ad hoc network. We have developed a complete environment in which network protocols can be studied on the basis of numerous performance metrics and we also observe that the performance of ad hoc network protocols is affected when different mobility scenarios are utilized.

Keywords: MANET, mobility, minspeed, maxspeed