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Title: Minimizing Shadowing Effects on Mobile Ad hoc Networks

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Abstract:

Simple two-ray model and FRIIS free-space model have been widely used in the literatures as the propagation models for the performance analysis of Mobile Ad hoc Network (MANET). These models do not represent real world scenarios where the environmental clutter varies widely for a given distance between two mobile nodes. In this paper, a more practical model called shadowing model has been adopted. The performances of ad hoc network have been investigated under this shadowing model. Analytical analysis of shadowing effects has also been presented in this paper. Three solutions have also been proposed in this paper to minimize the shadowing effects. Simulation results show that these three solutions minimize the shadowing effects.