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DYNAMIC HELLO MESSAGING SCHEME FOR NEIGHBOR DISCOVERY IN ON-DEMAND MANET ROUTING PROTOCOLS

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ABSTRACT

In mobile ad-hoc networks using smart phones energy efficiency is a major issue and for the local link connectivity information used in neighbor discovery, periodically exchanging hello messages are preferred. Due to neighbor discovery messages high overhead is produced in the On-Demand routing protocols, such as in AODV. In an attempt to enhance the scheme, this paper proposes a new approach to solve the problem by reducing unnecessary hello messages. In this paper we consider MANET under random waypoint model and investigated the relationship between the hello interval and event intervals. Finally we evaluate our study through simulations, the proposed scheme reduces the energy consumption and overhead of neighbor discovery processes.

KEYWORDS: Hello Messaging, Energy Consumption, Network Overhead, Hello Interval, Mobile Ad-Hoc Network (MANET)