



RESEARCH ARTICLE

Mobility and Distance Based Geographic Routing in MANET with Minimal Location Update

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Abstract-Geographic routing is a technique to deliver a message to a node in an adhoc network over multiple hops by means of position information. Each node updates its own position by the use of GPS or any localization techniques and forwards the data to the node closest to the destination. All nodes send a beacon known as location update message to its one hop neighbors. The most commonly used geographic routing algorithm is Greedy Perimeter Stateless Routing Protocol (GPSR) where communication is unicast. In our proposed work, the frequency of updating the location is dynamic which is based on mobility dynamics and over hearing the transmission by its neighbors. We also use dual path communication with dynamic position update where the selection of neighbors is based on the most optimal neighbor and the node which have low mobility thus increasing the QoS.

Keywords: MANET; Geographic routing; GPSR algorithm
