RESEARCH ARTICLE

DISTRIBUTIVE ADAPTIVE POSITION UPDATE FOR GEOROUTING PROTOCOL IN MANET

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Abstract - A mobile ad hoc network (MANET) is a self-configuring infrastructureless network of mobile devices connected by wireless. Each device in a mobile adhoc network is free to move independently in any direction, and will therefore change its connections to other devices very frequently. In geographic routing, nodes need to maintain up-to-date positions of their immediate neighbours for making effective forwarding decisions. Continuous monitoring of beacon packets that contain the geographic location coordinates of the nodes is a popular method used by most geographic routing protocols to maintain neighbour positions. We estimate that periodic beaconing regardless of the node mobility and traffic patterns in the network is not attractive from both update cost and routing performance points of view along network delay and degradation in network lifetime.

Keywords –GPSR; LAR; DREAM; SOGR; SOHR; APU

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