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Probabilistic Rebroadcast Based on Neighbor Coverage

V.M. Monikka

Abstract : It has been observed from literature that each node in mobile ad hoc networks (MANETs) is free to move independently in any direction. This movement of nodes leads to path failures and route discoveries. Broadcasting is a well known mechanism to discover the route and it causes broadcast storm problem. The broadcast storm problem performs too many rebroadcasting and also increases routing overhead in MANETs. Another problem is sometimes while discovering the route to the destination, the intermediary node loses its energy because of its less battery life time so that the intermediary node cannot forward the route reply on reverse path i.e. the reverse path forwarding of broadcast packets can be lost. This results rebroadcast, less packet delivery ratio and more end to end delay.