An Effective Counter Based Adaptive Broadcast Scheme for Mobile AdHoc Networks

Abstract:

Mobile Adhoc Networks (MANETs) are in desperate need of an effective broadcasting scheme to transmit a data packet from the sender node to destination node and the rest of the network nodes. This paper proposes an effective counter-based broadcasting scheme to accomplish efficient broadcasting by adaptive threshold based on the local density information. The counter identifies nodes with duplicate data packet using threshold values and node removes the redundant message. Probabilistic schemes do not require global topological information of the network to make a rebroadcast decision. In the proposed work, we use random assessment delay (RAD) to evaluate the network congestion level based on the packets received per second at each node. The performance evaluation shows that the proposed broadcasting scheme outperforms the existing methods in terms of reachability, routing overhead and latency.