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Abstract
The topology of Mobile Ad Hoc Network changes constantly since nodes moved haphazardly. Therefore, there are lots of routing protocols have been proposed, such as DSDV, AODV and DSR. In DSR protocol, the routing paths between nodes were chosen by minimum number of hops. However, there are many factors affect the transmission over wireless networks, such as signal strength, node's throughput, transmission latency, radio interference, and energy consumption. The shortest path routing is not always good in routing packets.
In this paper, we propose an adaptive multi-path routing protocol which can support QoS for mobile nodes in MANETs. A node can choice the most suitable path according to its QoS requirement. In the proposed protocol, the source node can obtain network metrics and multi-path information, and then selects the most suitable path according to the data flow type.
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