

عنوان مقاله:

Analysis of Path Duration in VANETs Using B-MFR Forwarding Method

محل انتشار:

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خلاصه مقاله:

Vehicular Ad hoc Networks (VANETs) is a network that connects multiple vehicles move in different velocities. The velocity and the direction are the main concern that affects on the route of the network. The high velocity of the vehicle is frequent cause changing in the topology of the network which turns on augmenting the probability of path failure. Therefore the path duration is used to enhance the performance of the path in the network. Many considerable studies were conducted to analyze the throughput, end to end delay and path duration to found the performance of routing protocol in the VANETs. In this paper, e present a model to estimate path duration with using border node-based most forward progress within radius (B-MFR) forwarding method. Five different scenarios for number of hops, vehicle velocities, and direction of the vehicles are analyzed. MATLAB is used to found the analytical results. The obtained result indicates that the velocity, direction and numbers of hops effect in the average path duration and the end to end delay. Throughput is more sensitivity to the arrival rate

کلمات کلیدی:

VANETs; B-MFR forwarding method; Average path duration; Throughput; end to end delay

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