ABSTRACT

Small Number of Vehicle and high vehicle mobility in VANET caused an intermittent connectivity and no stable path from source to destination. This research implements the DTN routing protocol Epidemic and PRoPHET in VANETs in Buah batu – Pasteur Toll Road.

The simulation results show that the increment of buffer size. Delivery probability of Epidemic and ProPHET increase. The overhead of both routing protocol decrease. The average latency of epidemic decrease and PRoPHET increase. The inceament of message size decreases the delivery probability of both routing protocol. Delivery probability of Epidemic and ProPHET decrease. The overhead of both routing protocol decrease. The average latency of both routing protocol increase. The increment of vehicle volume is affects the performances of both routing protocol. It increases the delivery probability of Epidemic and PRoPHET. The overhead of both routing protocol increase. The average latency of Epidemic and PRoPHET decrease. The increment of vehicle speed is affects the performances of both routing protocol. It increases the delivery probability of Epidemic and PRoPHET. The overhead of Epidemic decrease and PRoPHET increase. The average latency of Epidemic decrease and PRoPHET increase.

Key Words : Ad Hoc, VANET, DTN, Epidemic, PRoPHET, ONE