Context Aware Routing In MANET with Ant Colony Optimization

Abstract:

Mobile Adhoc Networks (MANETs) have attracted significant research due to their flexibility. MANETs are a collection of mobile nodes using radio waves as transmission medium to communicate using multihop links without any infrastructure. This study uses Context Aware Routing (CAR) in MANET with Adhoc On-demand Distance Vector (AODV) and Ant Colony Optimization (ACO) to improve performance metrics like average end to end delay, average packet delivery ratio, average number of hops to sink and jitter. Results prove that the new ACO-CAR performs better.