Abstract

Mobile Ad-Hoc Network dynamically changes its topology and also it doesn’t have proper infrastructure. So, it is necessary to provide the route stability. Already several routing methodologies are available for MANET. But those are not take the delay occurs in the network into account. As the topology of the network is dynamically changed, the route failure occurs frequently. Alternate route should be selected to route the data to its destination. The alternate route may be shortest path or it may not be. So, the concept of swarm astuteness is included in order to route the data reliably and quickly. The hill building behavior of termite inspires to find the alternate shortest path in the dynamic environment. In biological context, the termites are using pheromone to find out the path to reach the destination. Similarly, in this paper the pheromone table is maintained for each node. The MANET uses the hill building behavior of termite to discover the route dynamically which provides better packet delivery and decreases the control overhead.
Provident Routing Scheme Rely on Swarm Astuteness for MANET


Index Terms

Computer Science

Networks

Keywords

MANET; swarm astuteness; reliability; pheromone.