Abstract

Mobile ad hoc networks are infrastructure-less networks consisting of wireless, possibly mobile nodes which are organized in peer-to-peer and autonomous fashion. Each node is also a router that forwards data packets to its proper destination. A new family of algorithms inspired by Swarm Intelligence has come into existence to provide route optimization through routing load distribution. In this paper, we have proposed an Ant based routing algorithm to ensure appropriate load balancing in mobile ad hoc network using AODV and Ant Colony Optimization metaheuristics.

References

- Marco Dorigo, Mauro Birattari, and Thomas Scutzle 2006, Ant Colony Optimization Artificial Ants as a Computational Intelligence Technique, IRIDIA - Technical Report Series
Ant based Algorithm for Load Balancing in Mobile Ad Hoc Networks


Index Terms

Computer Science
Wireless

2 / 3
Keywords
Ant Colony Optimization  Ad hoc Network  Load Balancing  Swarm Intelligence