A Proactive Ant Colony Algorithm for Efficient Power Routing using MANET

Abstract

The field of wireless networks is an important and challenging area. In this paper we describe, AntHocNet an algorithm for routing in mobile adhoc networks. It is a hybrid algorithm which combines proactive and reactive behavior to compute packet delivery ratio, end to end delay and overhead by varying the speed of the mobile nodes. The algorithm is based on proposed nature inspired, self organized algorithm of ANT colony optimization (ACO). The bit error rate of ANT algorithm in accordance with other algorithms (AODV, DSDV, DSR, TORA……) is computed including power consumption, time delay and packet loss.


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**Index Terms**

- Computer Science
- Algorithms

**Keywords**

- ANT Colony Optimization
- Wireless network
- Mobile Adhoc Network (MANET)
AntHocNet