Abstract

This paper presents an Ant Colony Optimization (ACO) approach used to find the optimal solutions in the routing problem; it is one of the swarm intelligent applications. The Proposed method is used to determine the optimal path from source to destination for any size of networks. Optimal Path means the less cost path. The packets are sent from source node to destination node throw all node from one to another, which are traveling through the computer network. ACO algorithm can successfully find the optimal path and reduce the time.

References


2. Dalia Sabri, "Performance Analysis for Network Coding Using Ant Colony Routing", Master of Philosophy, Electronic and Computer Engineering, School of Engineering and Design,
Brunel University, December, 2011.


5. Helio J.C. Barbosa, Janez a "Ant colony optimization—techniques and applications" Trdine9, 51000 Rijeka, Croatia, 2013.


Index Terms

- Computer Science
- Artificial Intelligence

Keywords

- Ant Colony Optimization (ACO)
- Swarm Intelligent
- Networks Routing
- Optimal Path