Abstract

This paper presents a metaheuristic optimization algorithm for mobile robot path planning problem. A comparative study between particle swarm and ant colony optimization algorithm is conducted. The experimental study shows that the ant colony optimization algorithm outperforms over particle swarm optimization in terms of computational time.

References


**Index Terms**

Computer Science  
Algorithms

**Keywords**

Path planning  
Ant colony optimization algorithm (ACO) and Particle swarm optimization (PSO).