Abstract

Cloud computing is a popular computing paradigm that performs processing of huge volumes of data using highly available geographically distributed resources that can be accessed by users on the basis of Pay As per Use policy. In the modern computing environment where the amount of data to be processed is increasing day by day, the costs involved in the transmission and execution of such amount of data is mounting significantly. So there is a requirement of appropriate scheduling of tasks which will help to manage the escalating costs of data intensive applications. This paper analyzes various evolutionary and swarm based task scheduling algorithms that address the above mentioned problem.
An Analysis of Task Scheduling in Cloud Computing using Evolutionary and Swarm-based Algorithms

- Qing, W., and Han-Chao, Z. 2011. Optimization of Task Allocation And Knowledge

Index Terms

Computer Science  Algorithms

Keywords

Ant Colony Optimization (ACO)  Bee Colony Optimization (BCO)  cloud computing
Genetic Algorithm (GA)

Particle Swarm Optimization (PSO)

Quality of Services (QoS)

task scheduling.