Abstract

Nature plays a vital role in solving complicated problems in computer science. It helps us in finding the optimal desired way to solve extremely dynamic, difficult and robust problems. Bio inspired algorithm help us to cope with the technological need of a new era. Many researchers did enormous work in this area from the past few decades. However, still there is a large more scope for bio inspired algorithm (BIA) in exploring new application and opportunities in cloud computing. This paper presents a broad, detailed in of some Bio inspired algorithm, which was used in order to tackle various challenges faced in Cloud Computing Resource management environment.

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**Index Terms**

Computer Science  Distributed Systems
**Keywords**

Genetic Algorithm (GA)  Genetic Programming (GP)  Ant Colony (AC)  Firefly (FF)

Flower Pollination (FP)

Cuckoo Search (CS)

Honey Bee (HB).