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Abstract

Grid computing is a novel approach which solves the load balancing problems in scientific, engineering and research area. Load Balancing is a technique that can be used to improve resource utilization, to reduce MAKESPAN and to minimize number of failures. In grid environment, different algorithm for resources and data distribution is used to increase the performance and efficiency of load balancing. In grid environment Static threshold and PSO are used for load balancing. Static (fixed) threshold i. e. 3 is used for data transfer from source node to server node. Then, using PSO for data transferring that is better than, static threshold. Artificial Bee Colony Algorithm (ABC) is an optimization algorithm based on the intelligent foraging behavior of honey bee swarm. In this paper, propose a new load balancing algorithm using Artificial Bee Colony(ABC) for obtaining minimum makespan and less number of failure then, obtained results are presented and compared with static threshold and PSO.

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Index Terms

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