Abstract

The proper utilization of virtual machine in cloud computing environments, manage the process of load. The process of load balancing increases the efficiency and utility of cloud environments. The major components for the balancing of load is allocation of resource and distribution of tasks. For the allocation and distribution of tasks various swarm-based algorithms is proposed and enhanced the performance of cloud environments. In this paper proposed the virtual machine classification technique based on the distribution of tasks using heuristic function. The proposed algorithm is combination of KNN algorithm and ant colony optimization. The ant colony optimization is meta-heuristic function used for the process of optimization. The proposed algorithm simulated in CLOUDSIM 3.0 and measure the performance of proposed algorithm.

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Index Terms

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