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TASK SCHEDULING IN CLOUD COMPUTING USING GENETIC ALGORITHM

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ABSTRACT

Cloud computing is the latest expanding technology that has gained heights in the recent years. With increase in demands and usage, task scheduling has become a major concern in cloud computing. A particular paradigm is required to allocate and manage user's requests in an efficient manner. Different algorithms have been proposed to handle these requests but no algorithm has considered all the constraints like load balancing, make span time, cost and the time of execution. So, a challenging work is to consider all the parameters yet producing the best results. With this aim, a new scheduling algorithm has been proposed which focuses on the appropriate and efficient utilization of the resources. The performance of proposed algorithm is evaluated in terms of load balancing of tasks over the nodes and makes span time. This work also uses Dijkstra's method for initializing the population thereby reducing the search space and producing the optimize results. Results show the improvement in performance.

KEYWORDS: Cloud Computing, Dijkstra's Method, Genetic Algorithm, Task Scheduling

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