

# Load Balancing Algorithm Based on Estimating Finish Time of Services in Cloud Computing

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**Abstract**— Cloud computing is an emerging trend in the field of Information Technology and includes a large of distributed resources. The main goal of cloud computing service providers is to provide resources to workloads efficiently. Load balancing is an important technique for the goal. The technique is responsible for optimizing resource utilization, maximizing throughput, minimizing response time, and avoiding overloading of any single resources. So far, many load balancing algorithms have been proposed but their performance has to be still desired. In this paper, we propose a novel load balancing algorithm that is based on the method of estimating the end of service time. The simulation results show that our proposed algorithm improves response time and processing time.

**Keywords**— *Cloud computing, Load balancing, Virtual machine Migration, Data center, Scheduling policy.*



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