



Maximizing Response Time for Load Balancing in Cloud Computing Environment using Fusion Algorithm

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Abstract – Cloud computing world has many challenges and one of the most important challenges in this world is minimizing the response time and cost in instruction, in order to stabilize the load and increase the performance of the business along with customer satisfaction. Decreasing the cost is not only proficient but also be the most important reason for satisfying the customers. Transferring huge quantity of data using a balanced method with low cost is highly beneficial in the Cloud computing environment. By setting the number of processors for each VM, a technique is proposed by us based on fusion Swarm Optimization, to determine the optimal solution for allocating our resources, which in turn gives increased distribution map. The response time of our proposed technique is highly efficient when compared to the other algorithms. To determine the Efficient Fusion Algorithm (based on partial swarm optimization along with genetic algorithm) and it is related with ESCE, round robin and throttled scheduling to determine the response and processing time, which affects the cost.

Keywords – Cloud Computing, Cloudlet, Cloud Analyst, Resource Utilization, Synchronized Virtual Machine.