

## **Ts-gwo: Iot tasks scheduling in cloud computing using grey wolf optimizer**

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Cloud computing (CC) is the usual prominent solution to deliver large-scale and elastic IT resources (eg, CPU, Me, and storage) as a service over the internet [2, 35]. CC provides a huge pool of IT resources that need to be managed carefully. This is because the performance of CC highly depends on the efficiency of management of cloud service resources [17]. One of the main problems that directly affect the performance of cloud services is tasks scheduling (TS)[15, 54]. Decision-making with regard to allocation of the best resources for executing tasks with the consideration of quality of service (QoS) criteria is important not only for meeting cloud users' requirements but also for improving the performance of the whole cloud service. However, TS based on different QoS criteria is described as an NP-hard problem. For example, queries of tens of thousands of end users with different QoS requirements (eg, performance and cost) need to be distributed across thousands of servers to be served [14].

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