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**Combinatorial Double Auction based Meta-scheduler for Medical Image Analysis Application in Grid Environment**

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**Abstract**

Grid computing provides more computing power to solve the financial forecasting, weather forecasting, drug design and medical image processing application. Many meta-scheduling algorithms have been proposed to schedule jobs. Considering the architecture and characteristics of the grid environments, traditional meta-scheduler algorithms cannot be applied to the grid computing properly. In this paper, we have come up with a combinatorial double auction based meta-scheduler. The aim of this meta-scheduler is to maximize the number of the job accepted. We assess the proposed meta-scheduler performance by simulating the grid environment. The experimental result shows that the proposed meta-scheduler algorithm maximize the number of the job accepted than the traditional meta-scheduler algorithm.

**Keywords:**

Grid computing, Meta scheduler, combinatorial auction, Medical image

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