

多干扰网络的海量数据优化调度模型仿真分析

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摘要：网络中存在很多干扰信息，且数据节点的利用有很强的随机性，当前数据调度模型容易造成数据节点冲突，导致调度效率降低，为此，提出一种新的多干扰网络的海量数据优化调度模型，构建网络待处理信息特征相似性模型，获取网络待处理项的特征邻居，采用协同过滤算法实现网络多干扰过滤。在此基础上对海量数据调度任务量进行分区计算，获取海量数据调度任务中的子任务，从而构建海量数据调度任务和节点间的映射关系。依据目标数据在服务器的传输状态求出海量数据通信的任务量，构建海量数据优化调度模型。实验结果表明，采用所提模型对海量数据进行调度，不仅吞吐量高，而且传输速率快，具有很高的调度性能。

关键词：多干扰网络；海量数据；调度模型

Multi-Interference Network Optimization Scheduling Model

Simulation Analysis of Huge Amounts of Data

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Abstract: There's so much interference in the network information and the use of data nodes have strong randomness, the current data scheduling model is easy to cause conflict data node, results in the decrease of scheduling efficiency, therefore, put forward a new network more interference of huge amounts of data optimization scheduling model, build the network information to be processed characteristic similarity model, the characteristics of the item to be processed to obtain network neighbors, the collaborative filtering algorithm was adopted to realize the network interference filter. Based on the partition for the amount of mass data scheduling tasks is calculated, to obtain huge amounts of data scheduling tasks of subtasks, so as to build huge amounts of data scheduling tasks and data mapping relationships between the nodes. According to the target data transmission in the server's status, the quota of huge amounts of data communication, build huge amounts of data optimization scheduling model. The experimental results show that the proposed model to the scheduling of huge amounts of data, not only high throughput, and transmission rate is fast, has a high operation performance.

Key words: network more interference; huge amounts of data; scheduling model

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