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A CROWDSOURCING WORKER QUALITY EVALUATION ALGORITHM ON MAPREDUCE FOR BIG DATA APPLICATIONS

ABSTRACT

Crowd sourcing is a new emerging distributed computing and business model on the backdrop of Internet blossoming. With the development of crowd sourcing systems, the data size of crowdsourcers, contractors and tasks grows rapidly. The worker quality evaluation based on big data analysis technology has become a critical challenge. This paper first proposes a general worker quality evaluation algorithm that is applied to any critical tasks such as tagging, matching, filtering, categorization and many other emerging applications, without wasting resources. Second, we realize the evaluation algorithm in the Hadoop platform using the Map Reduce parallel programming model. Finally, to effectively verify the accuracy and the effectiveness of the algorithm in a wide variety of big data scenarios, we conduct a series of experiments. The experimental results demonstrate that the proposed algorithm is accurate and effective. It has high computing performance and horizontal scalability. And it is suitable for large-scale worker quality evaluations in a big data environment.

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EXISTING YSTEM:

Crowdsourcers almost release tasks at all times due to the large-scale crowdsourcing platform. Additionally, a large number of workers participate in these tasks. Therefore, the crowdsourcing platform will generate a large amount of data every moment, including crowdsourcing tasks, worker behaviours, and the solutions of tasks. The large amount of data put forward new demands to the calculated performance of crowdsourcing platform. The use of big data technology to specially process these massive data is a key issue that the crowdsourcing platform needs to consider.

DISADVANTAGES OF EXISTING SYSTEM :

- Most of these crowdsourcing systems rely on offline or artificial worker quality control and evaluation or simply ignore the quality control issues.

- High computational cost.

- Performance accuracy is less.\

PROPOSED SYSTEM:

Therefore, to evaluate the quality of the workers in the crowdsourcing platform accurately, we first propose a general worker quality evaluation algorithm. This algorithm achieves the worker quality evaluation for multiple workers and multiple problem types with no pre-developed answer, and the algorithm has a stronger scalability and practicality compared with the algorithm. Second, we propose to use the MapReduce programming model to realize large-scale parallel computing for worker quality and implement the proposed algorithm in the Hadoop platform. Finally, we conduct a series of experiments to analyse and evaluate the performance of worker quality evaluation algorithm.

ADVANTAGE OF PROPOSED SYSTEM:

- The proposed algorithm is effective and has a high performance.

- It can meet the needs of parallel evaluation of the large-scale workers in a crowdsourcing platform.

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- Processor   -   Pentium –III
- Speed   -   1.1 Ghz
- RAM   -   256 MB(min)
- Hard Disk   -   20 GB
- Floppy Drive   -   1.44 MB
- Key Board   -   Standard Windows Keyboard
- Mouse   -   Two or Three Button Mouse
- Monitor   -   SVGA

SOFTWARE REQUIREMENTS

- Operating System   : Windows 8
- Front End   :   Java
- Database   : Mysql

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