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Progressive MapReduce for Mining the growing Big Data

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Abstract: Seeing that new data and updates are continuously arriving, the results of data mining applications turn out to be stale and obsolete over time. Incremental processing is a talented move towards to refreshing mining results. It utilizes previously saved states to avoid the expense of re-computation from scratch. Suggest i^2 MapReduce, a work of fiction incremental processing extension to Map Reduce, the most widely used structure for mining big data. Compared with the state-of-the-art work on Incoop, i^2 MapReduce performs key-value pair level incremental processing somewhat than task level re-computation, supports not only one-step computation but also more sophisticated iterative computation, which is widely used in data mining applications, and incorporates a set of tale techniques to reduce I/O overhead for accessing preserved fine-grain computation states. Evaluate i^2 MapReduce using a one-step algorithm and four iterative algorithms with diverse computation description.

Keywords :map reduce, cloud computing, fine grain search