

A High-efficient Parallel Reasoning Algorithm

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ABSTRACT

The speed and efficiency of parallel reasoning has become one of the hot problems in parallel processing domain. Although some people have already propounded some parallel reasoning algorithms on some parallel models, these algorithms still have some shortcomings such as their reasoning search is blind and load balancing is not proper. In order to overcome these shortcomings, the paper designs a parallel reasoning algorithm with heuristic reasoning search and proper load balancing, it has really improved the efficiency of parallel reasoning.

Keywords: knowledge-based reasoning parallel reasoning, reasoning search, load balancing, MIMD shared-memory model, parallel reasoning algorithm.