

생산 일정 계획을 위한 지식기반 모의 실험

Knowledge based Simulation to Production Scheduling

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Abstract

There are various techniques that solve scheduling problems, but the acquisition of a good solution is very difficult. therefore, a simulation method that applies simple dispatching rule or a set of dispatching rule with the performance measure is frequently used. However, a simple dispatching rule may not create a good schedule because the same rule is applied to all processes. The application of different dispatching rules to each process may create a good schedule at the expense of simulating many possible alternatives. It severely increases the computation time.

This study uses knowledge-based simulation to reduce the computation time and to improve the performance. The knowledge-based simulation consists of knowledge base which is an important component of the system is made of a rule set that is acquired through the simulation, and the knowledge that was derived experimentally by human. The knowledge-bases simulation in terms of time and scheduling performance.