

전문가 시스템에 의한 자동생산 공정제어 (Knowledge-Based FMS Control)

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ABSTRACT

We consider a Knowledge-based control method for an FMS (Flexible Manufacturing System) with objective to minimize the shortage and excess inventory cost when the machines are prone to failures and demand varies.

In each time unit, the E/S (Expert System) checks the status changes and prepares operational directives to the FMS. We show the performances of different knowledge bases for the above objective. Compared with OR(Operations Research) based control, Knowledge-based control method is easy to reflect the experts' knowledge and easy to modify their rules on production.