

자동생산시스템(FMS)에서 대체경로를 고려한 작업량배정방법에 관한 연구 (Loading Method Considering Alternative Routing in Flexible Manufacturing System)

한준호 (한양대학교 산업공학과)

노인규 (한양대학교 산업공학과)

This research is concerned with developing a mathematical model and an loading method in flexible manufacturing systems.

The loading method is aimed to maximize the production rate and the machine utilization by assigning an operation to more than one machine and considering the continuous operations. The loading method can deal with the operation assignment problem(level 1) and the part routing problem (level 2) simultaneously.

The proposed loading method is evaluated by comparison with the balanced loading method which is not considered the alternative routing and the continuous operations.

The results show that the proposed loading method gives better results in terms of production rate and machine utilization than the workload balanced algorithm.