

신경망 기법을 이용한 FMS의 기계-부품 그룹화에 관한 연구

A study on the machine-part group formation
in an FMS using neural-network approach

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Abstract

Most flexible manufacturing systems are cellular manufacturing systems. Machine-part group formation(MPGF) problem is required to develop good system design and to operate system with efficiency.

Developed for MPGF problems are several approaches such as similarity coefficient method, rank order clustering, and mathematical programming. However, existing approaches do not consider the important information such as part routes.

In this paper, we introduce neural-network approach in MPGF problem considering part routing information. We also illustrate some numerical examples.