

عنوان مقاله:

A genetic algorithm approach to cellular manufacturing system (CMS) considering the operation sequence for each type of the parts

محل انتشار:

هشتمین کنفرانس بین المللی مهندسی صنایع (سال: 1391)

تعداد صفحات اصل مقاله: 6

نویسندگان:

Masoud Bagheri - Engineering, Shahed University Of Tehran, Tehran, Iran

Mahdi Bashiri - Engineering, Shahed University Of Tehran

davood hoseinnejad - Engineering, University of Tehran, Tehran, Iran

Mandana Sakhaei - Engineering, University Of Tabriz, Tabriz, Iran

خلاصه مقاله:

Cellular manufacturing system (CMS) is an important application of group technology (GT) in which families of parts is produced in manufacturing cells or in a group of various machines. This paper deals with application of a genetic algorithm approach to cellular manufacturing system; a multiobjective model is presented by considering the operation sequence for each type of the parts. The aim of this study is to minimize the cell load variation and part inter/intra cell movements by proper assignment of machines into cells. At last, the efficiency of the proposed GA approach is evaluated with numerical examples

کلمات کلیدی:

Cellular manufacturing system; genetic algorithm; Nphard problem; operation sequence

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/172827>

