

عنوان مقاله:

Solving Re-entrant No-wait Flowshop Scheduling Problem

محل انتشار:

ماهنامه بین المللی مهندسی، دوره 28، شماره 6 (سال: 1394)

تعداد صفحات اصل مقاله: 10

نویسندگان:

s Tasouji Hassanpour - *Department of Industrial Engineering, Tarbiat Modares University, Iran*

m.r Amin-Naseri - *Department of Industrial Engineering, Tarbiat Modares University, Iran*

n Nahavandi - *Department of Industrial Engineering, Tarbiat Modares University, Iran*

خلاصه مقاله:

In this study, we consider the production environment of no-wait reentrant flow shop with the objective of minimizing makespan of the jobs. In a reentrant flow shop, at least one job should visit atleast one of the machines more than once. In a no-wait flowshop scheduling problem, when the processof a specific job begins on the first machine, it should constantly be processed without waiting in the line of any machine until its processing is completed on the last one. Integration of the properties ofboth of these environments, which is applied in many industries such as robotic industries, is notinvestigated separately. First, we develop a mathematical model for the problem and then we present three methods to solve it. Therefore, we construct simulated annealing (SA), genetic algorithm (GA)and a bottleneck based heuristic (BB) algorithms to solve the problem. Finally, the efficiency of the proposed methods is numerically analyzed

کلمات کلیدی:

, Re-entrant Flowshop , No-wait Flowshop , Genetic Algorithm , Simulated Annealing , Bottleneck

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/406368>

