

## عنوان مقاله:

Optimizing a Flexible Manufacturing System: Hybrid Metaheuristic Approaches

## محل انتشار:

چهاردهمین کنفرانس بین المللی انجمن ایرانی تحقیق در عملیات (سال: 1400)

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## نویسندگان:

Behrooz Shahbazi - *Department of Industrial Engineering, Faculty of Industrial and Mechanical Engineering Qazvin Branch, Islamic Azad University, Qazvin, Iran*

Seyed Habib A. Rahmati - *Department of Industrial Engineering, Faculty of Industrial and Mechanical Engineering Qazvin Branch, Islamic Azad University, Qazvin, Iran*

## خلاصه مقاله:

In this Paper, the hybrid Genetic algorithm (GA) with Simulated Annealing algorithm (SA) & hybrid Imperialist Competitive algorithm (ICA) with Simulated Annealing algorithm (SA) are developed for classical Flexible Job Shop Scheduling Problem (FJSP). GA is one of the population-based stochastic algorithms and ICA is an algorithm for optimization which is inspired by the imperialistic competition. In order To assess the performance of mentioned algorithms, the results are compared with literature. Finally, for evaluating the distinctions of the two algorithms much more elaborately, they are compared with each other in Cmax (Makespan), Mean and elapsed time for solving the problem and statistical analysis of the results are done

## کلمات کلیدی:

Flexible Job Shop Scheduling Problem, Genetic Algorithm, Imperialist Competitive Algorithm

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1366032>

