

عنوان مقاله:

Solving the Job Scheduling Problem in Open Shop Using Bat Algorithm

محل انتشار:

مجله پیشرفت در تحقیقات کامپیوتری، دوره 13، شماره 2 (سال: 1401)

تعداد صفحات اصل مقاله: 7

نویسنده:

Sima Sivandi - Department of Computer Engineering, University College of Allameh tabarsi, Qaemshahr, Iran

خلاصه مقاله:

An optimal scheduling reduces the completion time (makespan) of jobs, and finally increase profits in today's competitive environment. Open shop scheduling problem (OSSP) involves a set of activities that should be performed on a limited set of machines. The aim of scheduling in an open shop is to provide a schedule for the execution of the entire operation so that the completion time of all operations is reduced. OSSP has a large solution space and belongs to NP-hard problems. So far, various algorithms are developed for OSSP. In this paper we propose a new optimization algorithm named Bat Algorithm (BA) for solving OSSP which has a relative advantage over other algorithms. Experimental results show that the proposed algorithm has high performance and increases the reliability and efficiency of the system.

کلمات کلیدی:

Open shop, Bat algorithm, Scheduling, Completion Time of Jobs

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