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Article

Application of artificial immune system algorithm to minimize total holding cost of completed and In-Process products subjectwith no tardy jobs

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Abstract

The most important target in scheduling is meeting the due dates for each job that has been associated with customer. This paper deals with the job-shop scheduling problem (JSP) of minimizing the total holding cost of completed and in-process products subject to no tardy jobs with Artificial Immune System (AIS) Algorithm. Several benchmark problems with different sizes which are commonly used for jobshop scheduling problems of minimizing the makespan are solved by the proposed two non traditional optimization techniques and the results are reported. AIS Algorithm gives better results compared with literature results in terms of total holding cost and computational time.

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July 2013 · Life Science Journal

● Dr.M. Chandrasekaran · S. Gobinath · C. Arumugam

Scheduling problems are usually solved using optimization techniques to get optimal or near optimal solutions because problems found in practical applications cannot be solved to optimality using reasonable resources in many cases. The n-job, m-machine Job shop scheduling (JSP) problem is one of the general production scheduling problems. In this paper, optimization of practical performance ... [\[Show full abstract\]](#)

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A fast algorithm for solving JSSP

November 2011

R. Murugesan · ● Venugopal Navaneetha Kumar

This paper proposed an improved fast scheduling based on Artificial Immune System (AIS). AIS was developed for solving NP complete computational problems. AIS based algorithms generated based on bio-immune theories include clonal selection, positive /negative selection, immune network and recently danger theory from. In this paper, the clonal selection based Clonal Selection Algorithm (CSA) for ... [\[Show full abstract\]](#)

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