

[Home](#) > [Immunology](#) > [Medicine](#) > [Immune System](#)

Article

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

January 2015 · [International Journal of Applied Engineering Research](#) 10(17):13817-13826

Authors:

**Dr.M. Chandrasekaran**

Vels institute of Science Technology and Advanced Studies

**D.****Lakshmipathy****P. Sriramya**

Saveetha University

[Request full-text](#)[Download citation](#)[Copy link](#)

To read the full-text of this research, you can request a copy directly from the authors.

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.

Discover the world's research

- 25+ million members
- 160+ million publication pages
- 2.3+ I citatic [Join for free](#)

No full-text available



To read the full-text of this research,
you can request a copy directly from the authors.

[Request full-text PDF](#)[Citations \(0\)](#)[References \(0\)](#)

ResearchGate has not been able to resolve any citations for this publication.

Recommended publications Discover more about: [Immune System](#)

Article

A hybrid approach for single objective job shop scheduling problems

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 ... [\[Show full abstract\]](#)

[Read more](#)

Article

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 ... [\[Show full abstract\]](#)

[Read more](#)

Last Updated: 22 Oct 2024



Company

[About us](#)
[News](#)
[Careers](#)

Support

[Help Center](#)

Business solutions

[Advertising](#)
[Recruiting](#)

© 2008-2025 ResearchGate GmbH. All rights reserved.

[Terms](#) · [Privacy](#) · [Copyright](#) · [Imprint](#) · [Consent preferences](#)