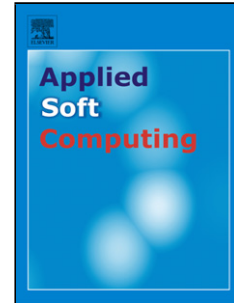


Accepted Manuscript

Title: Bi-criteria Ant Colony Optimization Algorithm for Minimizing Makespan and Energy Consumption on Parallel Batch Machines

Author: Zhao-hong Jia Yu-lan Zhang Joseph Y.-T. Leung Kai Li



PII: S1568-4946(17)30059-5
DOI: <http://dx.doi.org/doi:10.1016/j.asoc.2017.01.044>
Reference: ASOC 4038

To appear in: *Applied Soft Computing*

Received date: 17-11-2016
Revised date: 23-12-2016
Accepted date: 26-1-2017

Please cite this article as: Zhao-hong Jia, Yu-lan Zhang, Joseph Y.-T. Leung, Kai Li, Bi-criteria Ant Colony Optimization Algorithm for Minimizing Makespan and Energy Consumption on Parallel Batch Machines, *Applied Soft Computing Journal* (2017), <http://dx.doi.org/10.1016/j.asoc.2017.01.044>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

1. We consider the problem of scheduling n jobs on m batch-processing machines.
2. The goal is to minimize a bi-criteria objective: makespan and electric power cost.
3. We formulate the problem as a mixed integer programming problem.
4. We propose a meta-heuristic, PACO, and compare with NSGA-II and SPEA2.
5. Experimental results show that PACO outperforms NSGA-II and SPEA2.

Accepted Manuscript

Download English Version:

<https://daneshyari.com/en/article/4963412>

Download Persian Version:

<https://daneshyari.com/article/4963412>

[Daneshyari.com](https://daneshyari.com)