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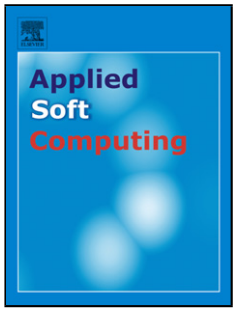

Title: Bi-criteria Ant Colony Optimization Algorithm for Minimizing Makespan and Energy Consumption on Parallel Batch Machines

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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, *<![CDATA[Applied Soft Computing Journal]]>* (2017), http://dx.doi.org/10.1016/j.asoc.2017.01.044

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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.

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