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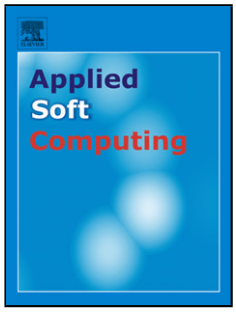

Title: A NEW HYBRID ANT COLONY OPTIMIZATION ALGORITHM FOR SOLVING THE NO-WAIT FLOW SHOP SCHEDULING PROBLEMS

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ACCEPTED MANUSCRIPT

A NEW HYBRID ANT COLONY OPTIMIZATION ALGORITHM FOR SOLVING THE NO-WAIT FLOW SHOP SCHEDULING PROBLEMS

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Graphical abstract (for review)

In this paper, we propose an effective new hybrid ant colony algorithm based on crossover and mutation mechanism.

To prove the efficiency of the proposed new hybrid ant colony algorithm, the no-wait benchmark flow shop scheduling problem is solved.

To determined the best parameter for new hybrid ant colony algorithm to solve the no-wait flow shop scheduling problem a full factorial experimental design is made

The performance of the proposed new Hybrid Ant Colony algorithm are compared to the Adaptive Learning Approach and Genetic Heuristic algorithm

The computational experiments show that the proposed new Hybrid Ant Colony algorithm is efficient and appropriate

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