Abstract

Scheduling of jobs in manufacturing environment is often NP Hard. Multi stage Hybrid flow shop with a number of unequal parallel machines choices per stage makes it a further NP Hard to solve. Improved Hybrid ACO Cuckoo Algorithm proposed in this paper attempts to apply the algorithm to solve one such Hybrid flow shop problem. The performance of the algorithm was benchmarked against available Hybrid Algorithms to solve Hybrid flow shop. The outcome of the algorithm outperforms the performance of some of the Hybrid algorithm currently available.

References

- Li-Ning Xing, Ying-Wu Chen, Peng Wang, Qing-Song Zhao, Jian Xiong, 2010; A Knowledge Based Ant Colony Optimization for Flexible Job Shop Scheduling Problems; Journal of Applied soft Computing, vol. 10, pp. 888-896.

**Index Terms**

Computer Science

Algorithms

**Keywords**

Flexible Flow shop  Ant Colony Algorithm  Cuckoo Search  Makespan minimization.