

Accepted Manuscript

An estimation of distribution algorithm for scheduling problem of flexible manufacturing systems using Petri nets

XinNian Wang, KeYi Xing, XiaoLing Li, JianChao Luo

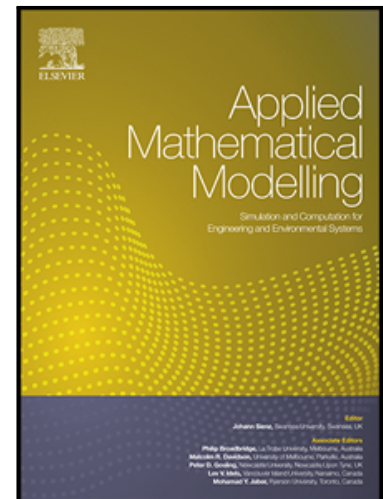
PII: S0307-904X(17)30709-6
DOI: [10.1016/j.apm.2017.11.018](https://doi.org/10.1016/j.apm.2017.11.018)
Reference: APM 12060

To appear in: *Applied Mathematical Modelling*

Received date: 3 June 2016
Revised date: 10 October 2017
Accepted date: 20 November 2017

Please cite this article as: XinNian Wang, KeYi Xing, XiaoLing Li, JianChao Luo, An estimation of distribution algorithm for scheduling problem of flexible manufacturing systems using Petri nets, *Applied Mathematical Modelling* (2017), doi: [10.1016/j.apm.2017.11.018](https://doi.org/10.1016/j.apm.2017.11.018)

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Highlights

- This is the first report on applying estimation of distribution algorithm (EDA) to the studied problem.
- A kind of PN-based deadlock controllers for FMSs is imbedded to exclude infeasible individuals.
- An effective voting procedure is adopted to construct the probabilistic model of EDA.
- The longest common subsequence is also embedded in the model for mining excellent genes.
- A new modified variable neighborhood search is developed as an efficiency enhancement of EDA.

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