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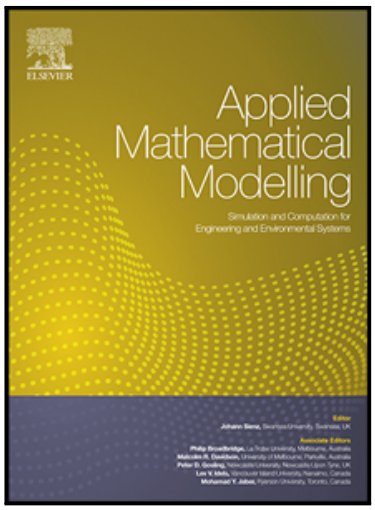

An estimation of distribution algorithm for scheduling problem of flexible manufacturing systems using Petri nets

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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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