

## Accepted Manuscript

Title: A simulation-based genetic algorithm approach  
for manufacturing process planning and scheduling

Author: Rui Zhang S.K. Ong A.Y.C. Nee

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- We study the integrated process planning and production scheduling problem for remanufacturing processes under uncertain environments.
- Two potentially conflicting objective functions are considered simultaneously, one related with process route selection and the other related with production cycle time.
- A simulation-based genetic algorithm approach is developed to provide approximations to Pareto-optimal solutions.
- Key parameters of the algorithm have been fine-tuned to save computational time and achieve satisfactory results.
- Extensive computational experiments and evaluations have been performed on a large set of test instances, and the proposed algorithm is shown to be effective and efficient.

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