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Minimizing the makespan on a single machine with flexible maintenances and jobs' release dates

Wei-Wei Cui, Zhiqiang Lu

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A clear mathematical description of the integration between production scheduling and maintenance is presented.

A high accurate heuristic *ERD-LPT* is proposed based on the analysis of optimal properties.

A branch-and-bound algorithm is developed, which can be used to solve the small-to-medium sized problems.

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