Minimizing the Total Weighted Completion Time on a Single Machine Scheduling with Release Dates and a Learning Effect

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Abstract

In this paper a single machine scheduling problem to minimize tardy jobs is considered. To increase the reality of the problem, deterioration and learning effect is added to. Beside, according to Inherent uncertainty in processing times, they are considered to be normally distributed. To find an appropriate solution, four existing models are extended and the results are compared to validate them.