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Author Michael Hung
Author's Email Address No Public.
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Abstract
This research studies the application of object-oriented simulation with animation to analyze and improve automated machine manufacturing. Unified Modeling Language (UML) and eM-Plant simulation software are selected to develop a simulation model of the automated machine manufacturing system, and experimental design is conducted. The number of machines, buffer size and processing time are used as input factors. Performance measures considered in the study are machine utilization, throughput rate and mean tardy ratio. The goal of the study is to determine the optimal values for decision variables through experimental design.
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