

Towards a Simulation Model to Ensure the Availability of Machines in Maintenance Activities

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Abstract : The aim of this paper is to present a model based on multi-agent systems in order to manage the maintenance activities and to ensure the reliability and availability of machines just with the required resources (operators, tools). The interest of the simulation is to solve the complexity of the system and to find results without cost or wasting time. An implementation of the model is carried out on the AnyLogic platform to display the defined performance indicators.

Keywords : maintenance, complexity, simulation, multi-agent systems, AnyLogic platform

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