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Forecasting Manufacturing Tardiness in OEM Milk-Run Operations Within the Industry 4.0 Framework

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Abstract

In a milk-run OEM pickup operation over an urban road network the manufacturing of components by suppliers is subject to varying tardiness on order release dates. Tardiness control by the logistic operators, when delivering parts and components to the OEM

production line, which is assumed to work according with the Industry 4.0 procedures, must also follow the new paradigm. In this context, IoT will be extensively used in smart sensors in association with a Big Data repository of productive information for production and logistic planning. The required integration of manufacturing tardiness inference and logistic operations in the Industry 4.0 context is analysed in the paper.

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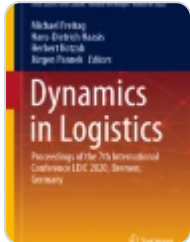
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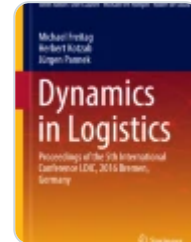
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