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Sensor Application in the Logistics Integration Process in the Manufacturing Environment

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Abstract:
Sensor technology is one of the technology enablers widely used in the manufacturing process to improve efficiency and reliability. However, the sensor technology has attracted little attention in usage and application in the logistics function as compared to RFID, barcoding, and ERP. As such, this research aims to explore various issues related to the lack of sensor adoption in the logistics integration process in the manufacturing environment. The research adopted the qualitative method using the in-depth interview to unveil the themes related to the question in the study. The study identified various issues that hinder the adoption of sensors technology in the logistic area, particularly the failure to understand the logistics boundary in the manufacturing environment. This study contributed the knowledge on the sensor application in the logistics area in the manufacturing environment that can be used for future research.