

Automation of control for product sorting and packaging line

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Abstract: In the context of Industry 4.0, automating production lines is necessary to improve efficiency and reduce labor costs. This topic focuses on building an intelligent control system for product sorting and packaging processes, aiming to enhance accuracy and speed in the workflow. Through a combination of theoretical research and experimentation, the topic proposes methods to optimize sensor technology and signal processing algorithms to ensure output quality. The expected result is an automated system that can be widely applied in manufacturing plants, contributing to the digital transformation process of the industry.

Keywords: Automation, Sensor Technology, Signal Processing Algorithms