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Automatic Gear Sorting Using Wireless PLC Based on Computer Vision

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Abstract

Gears are the most important components of the device and are usually used in the design of transmission of cars and other pivoting devices. In this paper, computer vision is suggested to sort out the defective equipment based on image processing depending on their amount of teeth image processing instrument and sensory circuitry used to solve the gear sorting issue. Through less human participation, a programmable logic controller (PLC) is used in sectors to automatically execute the entire manufacturing cycle to prevent human errors. A low-cost automation (LCA) has emerged in sophisticated technology that is used to prevent wiring composition and to effectively acquire control over the process. This paper involves converting wired PLC into wireless PLC by interfacing the PLC with the Wi-Fi module. To enable real-time surveillance and control of the system of equipment sorting via Wi-Fi module interfacing with

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