Building control for an automatic groove inspection system

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Abstract: In the modern context, the use of automated medical devices is becoming increasingly common, requiring high precision in the diagnostic process. This topic focuses on developing a control system for an automatic groove inspection machine to improve the accuracy and performance of endoscopic diagnosis. Through theoretical and experimental research, the topic will propose adaptive control algorithms to optimize the machine's operation. The expected result is a system capable of automatically analyzing and providing alerts to doctors based on data collected from the groove inspection process. This not only enhances work efficiency but also contributes to general improvements in the medical field.

Keywords: Automatic control, Endoscopy, Medical system