

Building an automatic door opening and closing system

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Abstract: In the context of increasing demands for security and convenience, this topic focuses on building an automatic door opening and closing system. The objective of the research is to solve the problem of automating the door control process to enhance space utilization and security. The research method includes synthesizing modern technologies in sensors, signal processing, and machine learning to design a flexible system capable of adapting to various types of doors. The expected results of the topic will bring important contributions to the field of civil automation and support managers in optimizing operational processes.

Keywords: Door opening and closing system, Automation, Sensor, Signal processing, Security