

Python application in moving object detection problem

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Abstract: In this study, we focus on applying the Python programming language to solve the problem of moving object detection. The project has high practical significance as it aims to meet the demand for effective security monitoring and control in scenarios such as smart home security systems, street surveillance cameras, etc. Through theoretical research on signal and image processing combined with experimental implementation, this project not only provides a technical solution but also identifies challenges and potential development directions for the future. The expected results of the project will make a significant contribution to the field of security information technology.

Keywords: Python, Moving object detection, Image signal processing