

Study of background subtraction techniques in moving object detection with the assistance of surveillance cameras

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Abstract: This topic aims to study and apply background subtraction techniques to the process of detecting moving objects from video data captured by surveillance cameras. The problem addressed is the development of an efficient system to remove background noise, enhancing the accuracy of motion recognition. The research method is based on a combination of signal processing theory and experimentation with modern algorithms. The expected result is to provide a useful solution for the surveillance information technology industry, contributing to improving the quality of security services and resource management.

Keywords: background climate, motion detection, surveillance camera, video signal processing, monitoring system