

Implementation of Moving Object Detection and Background Update for Video Surveillance

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ABSTRACT

The moving object detection and background updating are two important issues in video surveillance system based on background subtraction. In this thesis, we develop a system based on background subtraction to explore the two issues. Since the texture is less sensitive to global light change, a texture-based moving object detection scheme is devised in this thesis. In addition, we integrate texture-based, background-subtraction-based, and frame-difference-based methods to correctly update the background even the light changes. Based on experimental results, our proposed system achieve not only moving object detection but also background updating. In the future, we will reduce the computational complexity of the proposed system and discuss the issue of object tracking.

Keywords : Moving Object ; Texture ; Surveillance System ; Background Update

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