

Research on background subtraction techniques in moving object tracking with the assistance of surveillance cameras

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Abstract: In the context of increasingly diverse applications of video surveillance technology, the problem of detecting and tracking moving objects from images has become an important requirement. This topic focuses on researching background subtraction techniques to improve accuracy in tracking moving objects in images captured by surveillance cameras. The objective of the topic is to build and test a system based on a combination of theoretical and experimental methods, aiming to optimize the performance of moving object tracking. The expected results of this research not only enhance the quality of surveillance services but also contribute to the development of image processing technology.

Keywords: surveillance camera, background subtraction, moving object, video surveillance, tracking system