A Study on Computer Vision Systems for Real-Time Object Detection and Tracking

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Abstract

Computer Vision (CV) concentrates on the automatic extraction, examination and comprehension of valuable data from a solitary image or a group of images. Object tracking, one of the key areas in CV has received a lot of attention in recent times. Tracking objects is a systematic process of monitoring the movement of a target object from its initial state to the nth state over a period of time using a camera. This technique is usually employed as a security feature in both military and civilian systems. However, prior studies has shown that tracking objects in motion is a very difficult task and is a hot research hotspot in the field of computer vision and machine learning. In this review paper we discuss various techniques in detection, tracking and some other related works of moving objects in video streams.

References

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**Index Terms**

Computer Science

Pattern Recognition

**Keywords**

Automatic Extraction, Object Detection, Object Tracking, Computer Vision and Machine Learning.