

Object Detection and Tracking

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Abstract: *A crucial and difficult topic is the recognition and tracking of objects in computer vision systems. Due to the rising use of autonomous robots and vehicles, object identification and tracking is being used in a variety of industries, including surveillance, robot navigation, and vehicle navigation, access to large public databases and computational power. The object tracking algorithm used for image analysis. The objective of the algorithm is to partition the area of interest, track its movement, and locate any blobs. An object detection system is required for every tracking, either in each frame or whenever an object appears in the video sequence for the first time. The necessity for automated object tracking video sequences has increased with the advent of high-performance computers and cheap cost, high quality video cameras. Recent advances in computer vision research have made tracking and identification of multiple objects in dynamic environments a top priority. The various object identification and tracking techniques are covered in this publication.*

Keywords: tracking of objects