A Robust Object Detection and Recognition using Deep Features based Appearance-Model

Abstract

The object detection models are very important parts of the vehicular monitoring, traffic surveillance or traffic planning in the urban or crowded areas of the cities. The satellites images are the primary sources of the urban surveillance; hence the proposed model has been proposed to work with the satellite imagery data. The object detection and localization plays the vital role in the various surveillance applications, vision based applications, augmented reality and robotics. The object detection and recognition becomes very important to localize the specific objects for augmented reality and robotics applications. In this thesis, the work would be carried forward on the mechanism using the Deep Features based Appearance-Model for the object detection and recognition in the target images.

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**Index Terms**

Computer Science  
Information Sciences

**Keywords**

Deep learning, Neural network, Appearance model, Pattern recognition, deep features.