

# Anomaly Detection in Video Sequence with Appearance-Motion Correspondence

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## Abstract

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- Learning a correspondence between common object appearances (e.g. pedestrian, background, tree, etc.) and their associated motions.
- A combination of a reconstruction network and an image translation model that share the same encoder.
  - a reconstruction network : the most significant structures that appear in video frames
  - an image translation model : associate motion templates to such structures.
- The training stage is performed using only videos of normal events and the model is then capable to estimate frame-level scores for an unknown input.

# Introduction

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