Monocular Localization of Moving Vehicles

Objective
A monocular object localization system.
Estimates the shape and pose of dynamic objects in real-time, using video frames captured from a moving monocular camera.

Why dynamic scenes are catastrophic ...
Incorrect triangulation and hence corrupted pose and shape (i.e. \( R, t \))

CRF-Style Stacked Hourglass Networks

Keypoint Localization Results

Qualitative Results

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