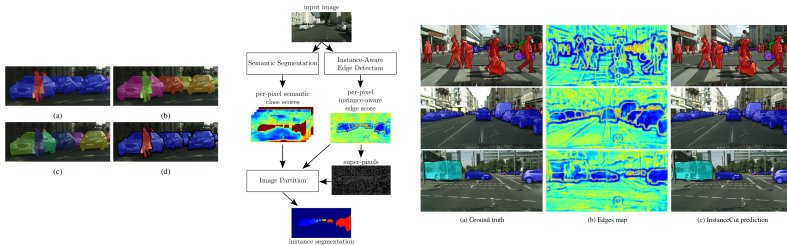


InstanceCut: from Edges to Instances with MultiCut

A. Kirillov, E. Levinkov, B. Andres, B. Savchynskyy, and C. Rother (ARXIV 2016)



- ▶ Instance-aware semantic segmentation
- ▶ Challenges:
 - ▶ Meaningless labels (car number 5)
 - ▶ Varying number of objects
 - ▶ Set of pixels vs. bounding boxes
 - ▶ Need for a more refined labelling of the training data (rare classes)
- ▶ An instance-agnostic semantic segmentation using CNNs
- ▶ All instance-boundaries using a new instance-aware edge detection model
- ▶ Combined into a novel MultiCut formulation
- ▶ Evaluated on CityScapes: particularly well for rare object classes
- ▶ Not handled: instances that are formed by disconnected regions in the image