## Frustum PointNets for 3D obj detection from RGB-D data

## Summary

- 1. The task of 30 object detection:
  - . classify object category.
  - . estimate oriented 30 bounding boxes of physical objects.

from 30 sensor data.

- 2. The main challenge the paper tackles is how to efficiently propose possible locatrons of 30 objects in 30 space.
- 3. This is hard because the comp. complexity of 30 search grows cubically wit resolution.
- 4. They reduce the search space by using 20 obj detector.
- 5. Given a RGB image, they extract the 3D bounding frustum of an object by extruding 20 bounding boxes from image datectors.
- 6. Then, within the 30 frustum, they perform 30 obj. instance segmentation and amodal 30 bounding box regression.