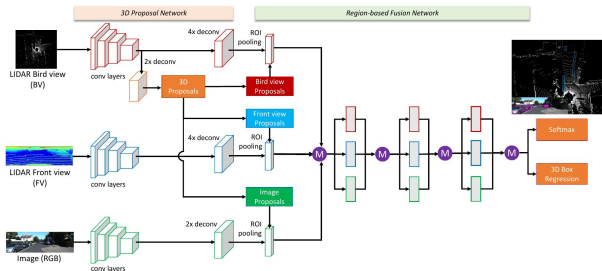


# Multi-View 3D Object Detection Network for Autonomous Driving

X. Chen, H. Ma, J. Wan, B. Li and T. Xia (ARXIV 2016)



- ▶ High-accuracy 3D objection detection in autonomous driving scenario
- ▶ Sensory-fusion framework that predicts oriented 3D bboxes using LIDAR point cloud and RGB images
- ▶ Encode the sparse 3D point cloud with a compact multi-view representation
- ▶ Proposal network generates 3D candidate boxes from bird's eye view representation of the point cloud
- ▶ Deep fusion scheme combines region-wise multi-view features and enables interactions between intermediate layers
- ▶ Evaluation on the KITTI benchmark outperforming state-of-the-art in 3D localization and 3D detection