

## Sensor Fusion - 3D-Objects

17 April 2022 20:13

### Compute Lidar Point-Cloud from Range Image

Visualize range image channels

The Tasks were done:

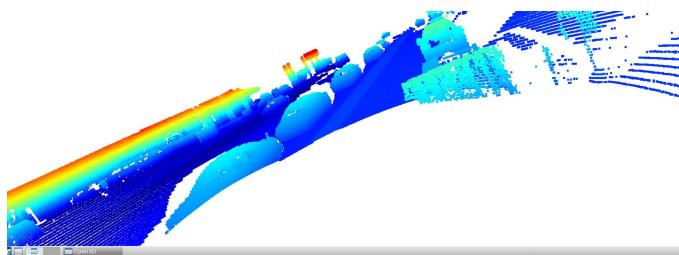
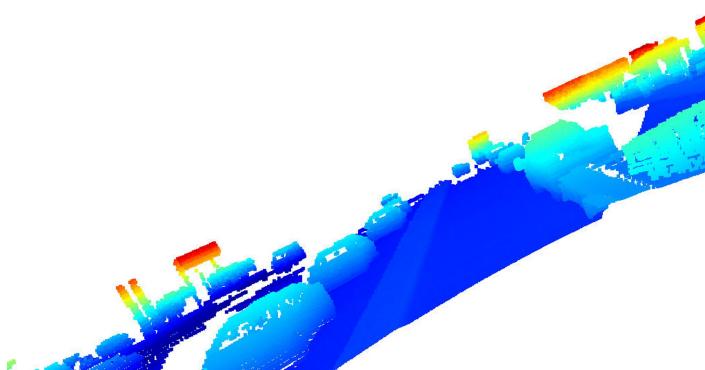
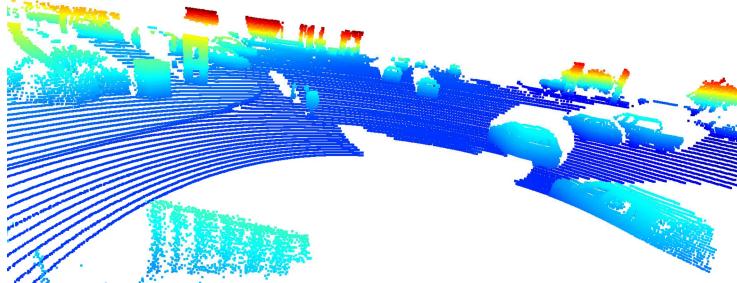
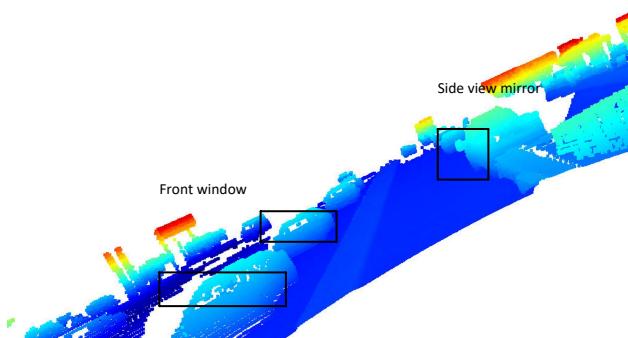
Convert range image "range" & range image "intensity" channel to 8bit

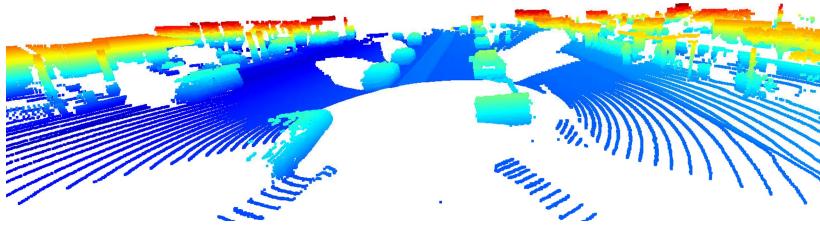
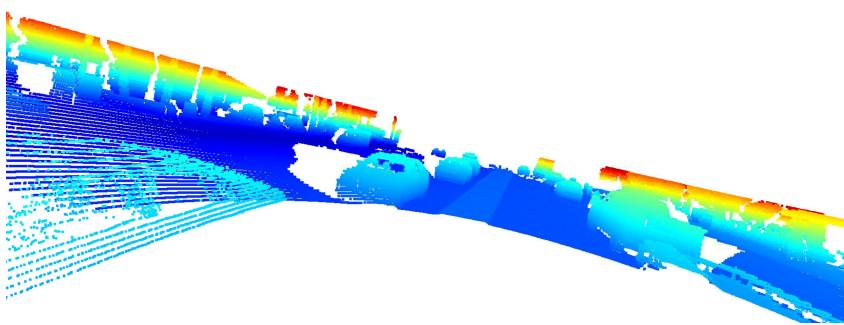
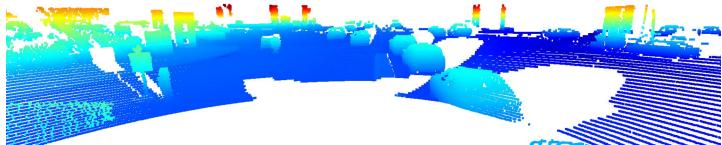
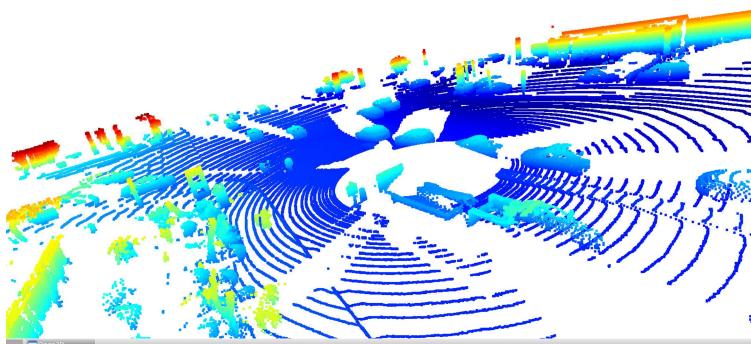
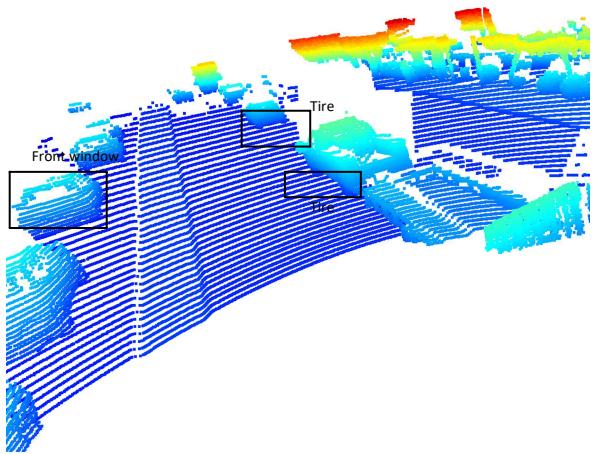


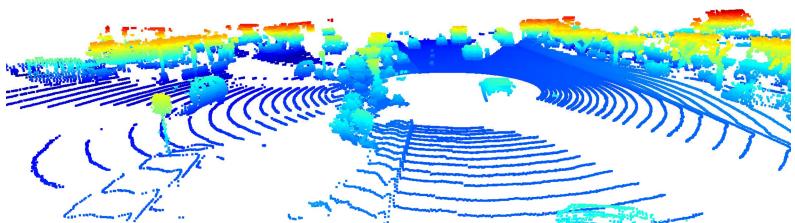
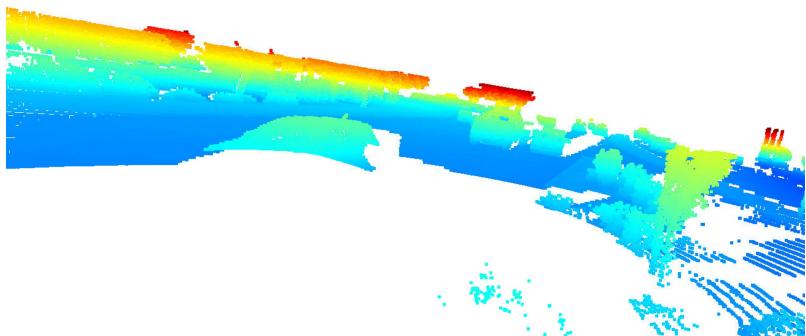
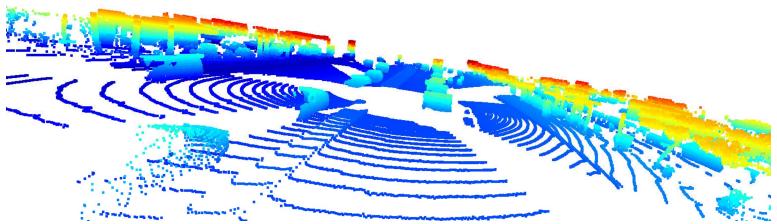
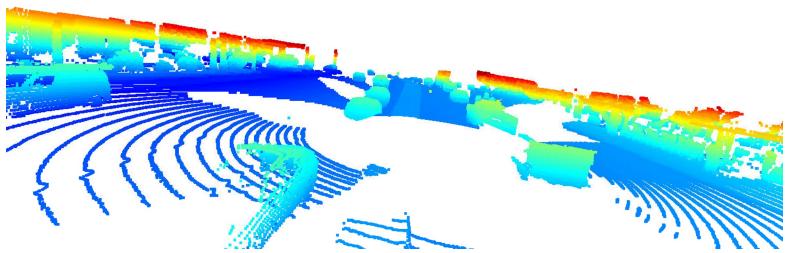
Visualize point-cloud

In this exercise, cars are identified in Point cloud with different features.

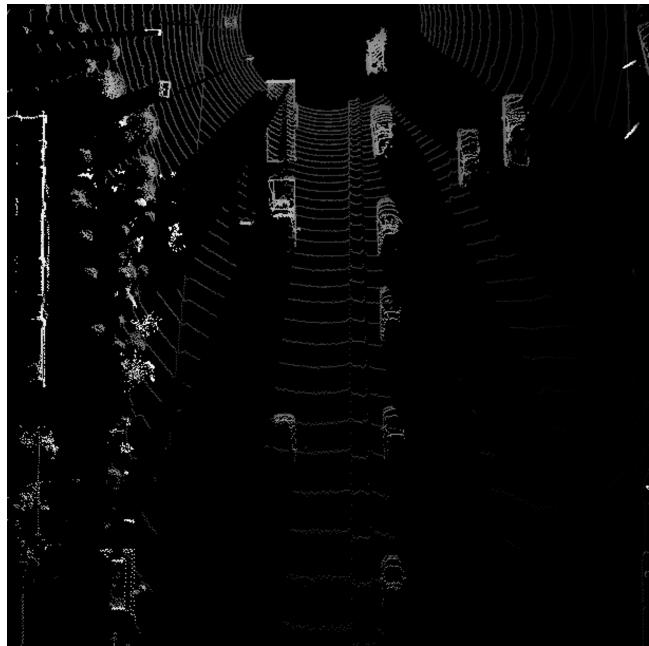
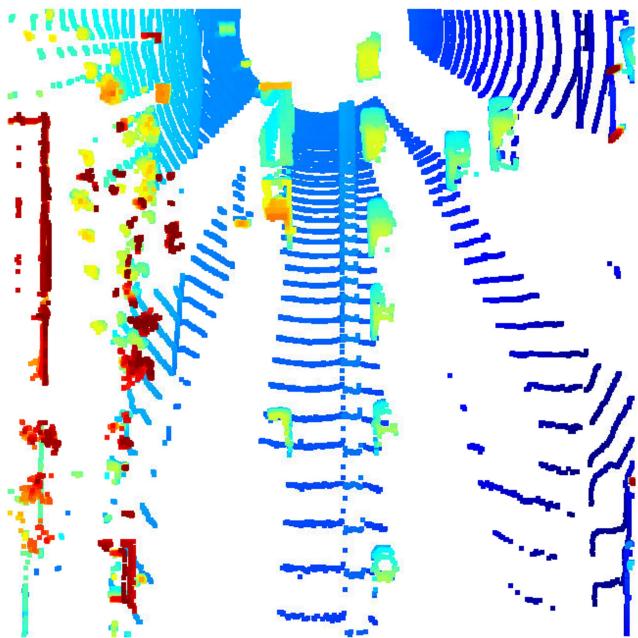
Tires, side view mirror & front window are stable features



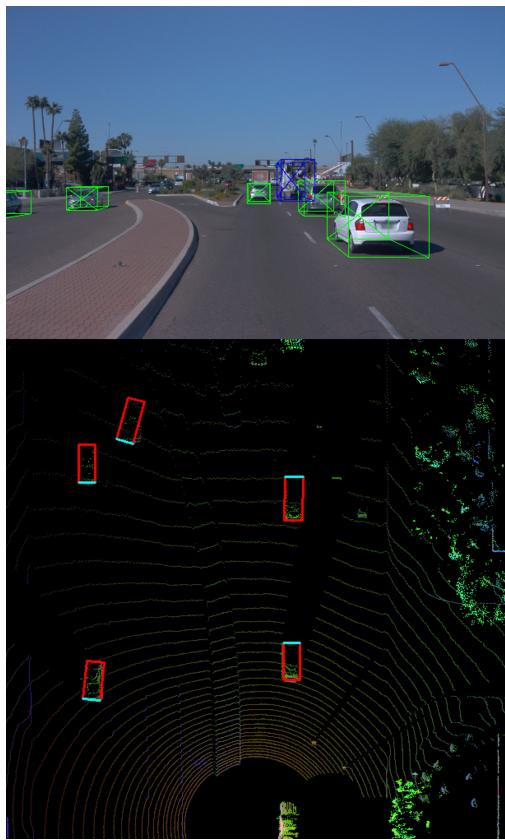




Birds-Eye View from Lidar PCL



## Model-based Object Detection in BEV Image



## Performance Evaluation for Object Detection

Performance metrics results

