

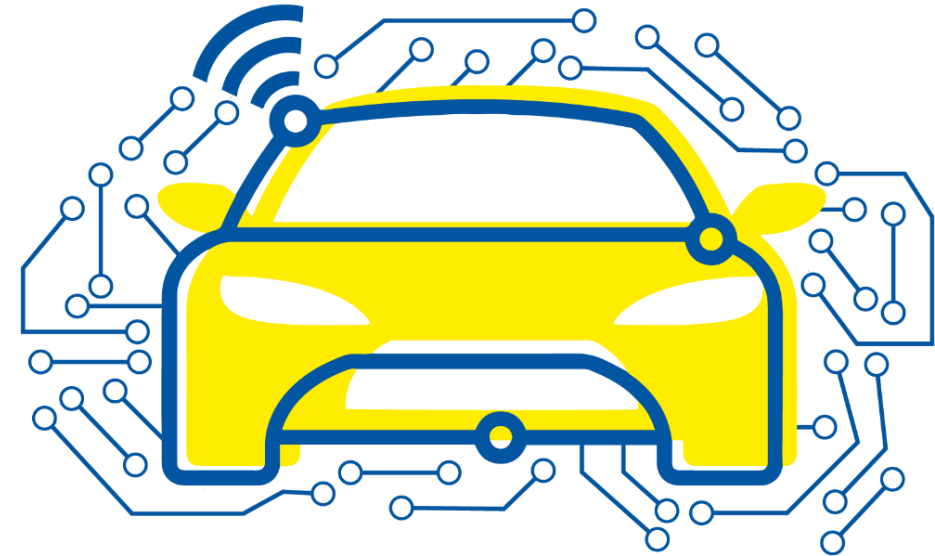
Automated and Connected Driving Challenges

Section 2 – Sensor Data Processing

Object Detection Tasks

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Exercises of this Subsection

3D Object Detection

- **Assignment:**
“3D Object Detection Training”
 - Jupyter Notebook
 - Preprocessing of LiDAR data
 - Building training pipeline
 - Training
 - Inference and postprocessing
- **Assignment:**
“3D Object Detection Inference in ROS”
 - ROS Node
 - Using real point cloud data from test vehicle in ROS
 - Performing 3D object detection with trained model
 - Visualizing predictions in RVIZ

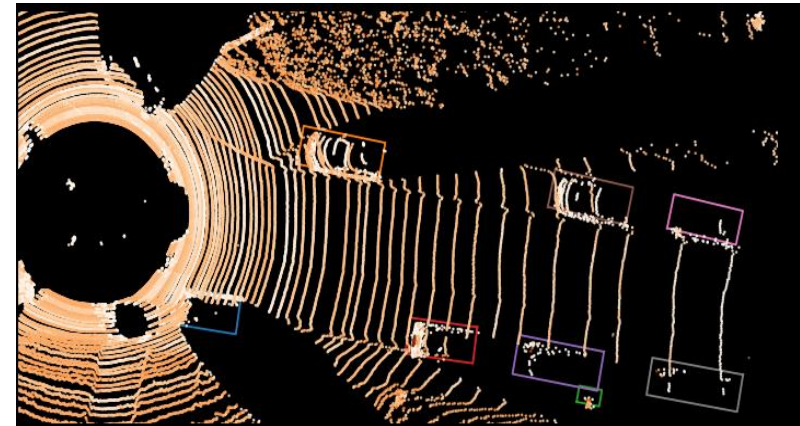


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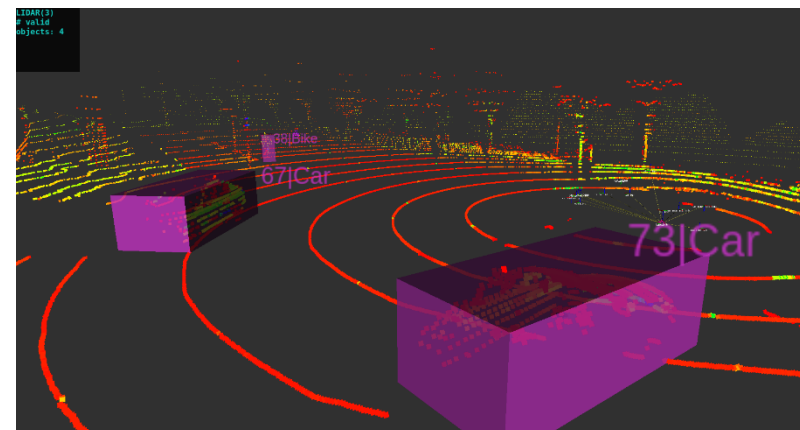


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