

## **Robo-Taxi LiDAR Perception Solution**

Provides stronger perception systems for higher speed autonomous driving.

RoboSense combines hard-core technologies in excellent LiDAR sensor hardware and Al point cloud algorithms to provide Smart Sensor Systems to various applications of autonomous driving.

Robo–Taxi relies on the most sophisticated autonomous driving technologies to engage itself with complex driving environments, such as coping with different speed limits and dealing with urban roads bustling with pedestrians and vehicles. Catered to the specific requirements of Robo–Taxi, RoboSense provides two systems: RS–Fusion–P3 and RS–Fusion–P5 to address the LiDAR perception needs with full–stack solutions.

#### <sup>「</sup>AI Perception: RS-LiDAR-Algorithms」



Al + Conventional Algorithms



Over 10 years point cloud algorithm development experience



Optimized for NVIDIA CUDA and TensorRT



Verified by 100+ partners and in various testing scenarios



Data-driven, multi-scene, large-scale point cloud data sets



Support desktop GPU and low–power mobile platforms

#### RoboSense / Suteng Innovation Technology Co., Ltd.

10–11/F, Block 3, Chongwen Garden, Nanshan IPark, 3370 Liuxian Avenue, Shenzhen, China 0755–86325830 / service@robosense.cn

www.robosense.ai

### RS-Fusion-P3





- RS-LiDAR-16 ×2
- System Hardware
- Perception System
- Training Service

Software Algorithm











HD Localization HD Map Construction Multi-LiDAR Point Cloud Fusion



 $\bigoplus$ 

Obstacles Detection Classification & Recognition Dynamic Objects Tracking

amic Objects Tr

## RS-Fusion-P5



- RS-Ruby(128 beam) ×1 RS-Bpearl(short-range blind-spot LiDAR) ×4
- System Hardware 
  Perception System 
  Training Service

L4+Perception Robust SMART High Resolution No Blind-zone

# Applications



Robo-Taxi