RoboSense combines hard-core technologies in excellent LiDAR sensor hardware and AI 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.

「AI Perception: RS-LiDAR-Algorithms」

- AI + Conventional Algorithms
- Over 10 years point cloud algorithm development experience

- CUDA & TensorRT
- 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
RS–Fusion–P3

- RS–LiDAR–32 x1
- RS–LiDAR–16 x2
- System Hardware
- Perception System
- Training Service

Software Algorithm

- HD Localization
- HD Map Construction
- Multi–LiDAR Point Cloud Fusion
- Obstacles Detection
- Classification & Recognition
- Dynamic Objects Tracking

RS–Fusion–P5

- RS–Ruby(128 beam) x1
- RS–Bpearl(short–range blind–spot LiDAR) x4
- System Hardware
- Perception System
- Training Service

L4+Perception  Robust  SMART  High Resolution  No Blind–zone

Applications

- Robo–Taxi