Perception and Sensing WG Meeting 14/06/2023 #3577

drwnz started this conversation in **Working group meetings**

drwnz on Jun 14, 2023   `Collaborator`   edited ▾

Administrative

- [Previous meeting](#)
- **Meeting time:** Every second Wednesday, 10am UTC (alternating with Mapping WG)
- [WG Google Drive](#)

Attendees

▼ Chaired by David
- Kenzo Lobos
- YoshiRi
- Alexey Panferov
- Ryohsuke Mitsudome
- Yusuke Muramatsu
- Kaan Çolak
- Armağan Arslan
- Sunsuke Miura
- Akihito Ohsato
- Rick
- Mark

Agenda

- Introduction of new attendees
- Progress report on **Completion of Sensing & Perception Documentation**
- Progress report on **Universal Lidar Driver**
- Review of [Project Board](#) and assignment

Discussion topics

- Welcome Mark and Rick from Foxconn
  - Joining various WG to get an overview of Autoware activities
  - Working on ADAS functions from L2 to L4

Category

🧳 Working group meetings

Labels

`meeting:sensing-p…`

1 participant

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- Progress report on **Completion of Sensing & Perception Documentation**
  - No update this week
- Progress report on **Universal Lidar Driver** https://github.com/tier4/nebula
  Discussion on point types which is also relevant: Link
  About changing point types in Autoware:
  - Large changes in one sweep are difficult
  - Fatih: suggest going with transitional approach, and create a converter node for the new point type
  - David: Nebula supports legacy types and publishes in parallel with new type, but converter still required for old data (not captured as packets but points)
- Project board
  - ⎇ **feat(pointcloud_preprocessor): separate concatenate filter node and output synchronized pointcloud** autoware.universe#3312
    - Time sync separated from concatenation of point clouds, with performance benefits
    - Synchronizer can only be used for pointcloud messages
    - LeoDrive also working on synchronizer as part of the LiDAR driver (working on Velodyne-VLS)
  - ✓ **ML based Occupancy** autoware.universe#3607
    - Model has been updated, next week can share some training results
  - ⥮ **feat(traffic_light): improved traffic_light_map_based_detector and new traffic_light_fine_detector package** autoware.universe#3442
    - Adds multi-camera fusion package
    - After merge, traffic light status will be for intersection rather than individual lights
    - Mitsudome-san: This is a very large PR, and should be split into several

Action items

- [ ] Announce formation of working group on ROS Discourse
- [ ] Announce Nebula (universal sensor driver) open source release
- [ ] Summarize current documentation for Sensing & Perception documentation

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0 comments