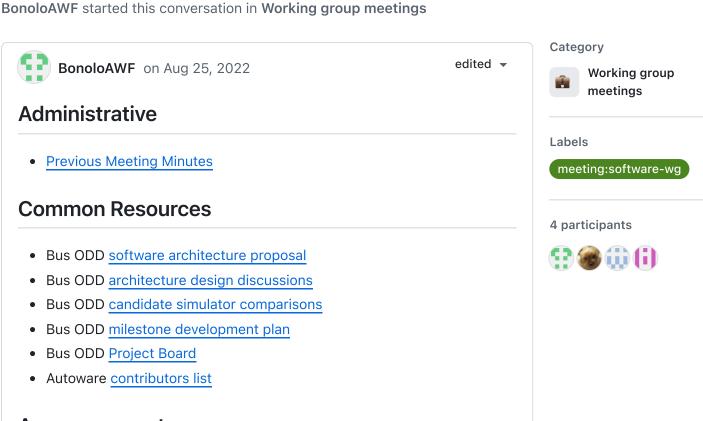


Autonomy Software WG Meeting 2022/08/30 #2816



Announcements

Phillip will be presenting on TUM planning modules at the meeting next week.

Autoware.Universe

- Bus ODD July-Aug Milestone
- PRs waiting for review
- Bus ODD high priority issues not in the current milestone
- Autoware.Universe reported bugs
- Autoware design discussions and demos

Discussion topics

Enabling the code-owners feature in AWF repositories

- See @kenji-miyake comments below
- Proposal to assign a code owner for each package (which tracks the maintainers). When a pull request is created against that package, the correct reviewer can be assigned.
- Package.xml file of each package should have a valid username and email address.

 The CODEOWNERS files should not be edited directly (update package.xml and CI workflow will automatically update the CODEOWNERS file).

Bus ODD progress updates:

ITRI bus integration update (In meetings with 7am UTC time slot)

- See slides in comments for details
- On-vehicle integration is 90% complete and on-track for completion by end of next week
- DriveNet data is working, LidarNet input is ongoing work
- Ouster sensors are fully integrated, TF conversion node for lidar is ready
- Trimble hardware is fully integrated, localisation node will be tested when the vehicle is on the road
- · Bus stop functionality was fixed

LeoDrive bus integration update

• no update (public holiday in Turkey)

Action Items

<u>@BonoloAWF</u> to set up a call between AWF and Arm to finalise TVM support in Autoware discussion

<u>Run Lidar Centerpoint with</u>

<u>TVM autoware.universe#908</u> and

<u>Add TVM inference</u>

<u>capability autoware.universe#628</u>

Review of Issues and Discussions

The following Discussions and Issues were highlighted (see comments for details):

Issues:

- Autoware keeps following old local path after
 behavior_velocity_planner is dead autoware.universe#1253 ongoing
- Image messages have latency or dropped autoware.universe#1228
 bag files converted, Fatih will test tomorrow
- Run Lidar Centerpoint with TVM autoware.universe#908 moved to next milestone
- Create speed_bump behavior module autoware.universe#611 working on draft PR
- Motion_velocity_smoother should depend the steering_rate_limit autoware.universe#1023 - ongoing PRs
- Evaluate performance of object detection
 pipeline autoware.universe#565 waiting for reviewer comments
- Finalize the field type for pointcloud autoware.universe#563 ongoing documentation additions
- Implement sensor drivers for ROS 2 autoware.universe#551 ongoing work to provide drivers

- Sometimes the sensing module doesn't publish concatenated pointcloud autoware.universe#1009 - multi-thread nodes referring to the same library could be the cause
- Ground segmentation fails for points behind the low objects autoware.universe#669 - no updates
- Positioning error in wrong zone when NDT starts autoware.universe#1421 - ready to close
- StepPolygon of obstacle_stop_planner is instable when changing the params of avoidance_module autoware.universe#1499 - PR awaiting review
- Checking only 4 corners in the drivable area autoware.universe#1716 - no updates
- planner node dies inside
 RCLCPP_COMPONENTS_REGISTER_NODE
 macro autoware.universe#1389 check if there is a public avenue for testing
- Adding NDT reinitalization statement and reinitialization while moving autoware.universe#1375 ongoing
- planning mode doesn't change if lane change path can't be
 executed in behavior path planner autoware.universe#1328 this was reproduced, data needs to be shared
- Can not give a new goal behind in the same lane autoware.universe#1715 known issue
- <u>Orivable area from behavior_path_planner is not expanded in this</u>
 case. autoware.universe#1702 bug is fixed
- <u>tensorrt_yolo</u> <u>sample yolov5 model throw error on</u> <u>inference</u> autoware.universe#1647 possible fix outlined

Discussions:

- Lanelet map convention for static obstacles #2826 extracting physically non traversal borders for planning
- 😡 [proposal] A new pointcloud map interface for dynamic map loading #2812 proposal for supporting dynamic map loading
- Avoid obstacles near the center line in behavior_path_planner #2799 - more discussion needed
- Q CARLA Simulator + Autoware Universe Tutorials #2828 integrating Carla with Autoware

1

3 comments · 1 reply

Oldest

Newest

Top



kenji-miyake on Aug 30, 2022

@BonoloAWF @xmfcx @mitsudome-r

Hi, I'd like to enable the code-owners feature in AWF repositories. https://docs.github.com/en/repositories/managing-your-repositorys-settings-and-features/customizing-your-repository/about-code-owners

The feature can automatically assign appropriate reviewers based on the settings in the CODEOWNERS file. I believe it can make reviews more efficient. For more detailed behaviors, please refer to this comment: autowarefoundation/autoware.universe#1619 (comment)

The CODEOWNERS file is automatically updated using the maintainer tags information in package.xml like this.

https://github.com/autowarefoundation/autoware.universe/pull/1671/files



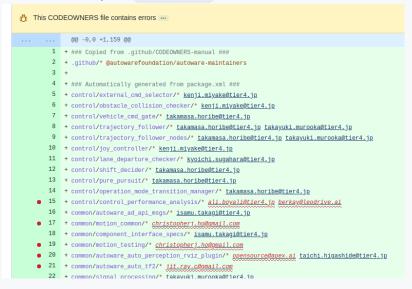
1 reply



kenji-miyake on Aug 30, 2022

Based on this proposal, I have some requests for the maintainers.

- Please keep the maintainer tags of your package up to date.
- Please link your email address that is used in package.xml files to your GitHub account.
 - If it's not linked, the CODEOWNERS file raises errors.



 You can link multiple email addresses, so you don't have to remove your personal email.





hueirutseng on Aug 30, 2022 (Collaborator)

ITRI Bus Project Update: Presentation



mitsudome-r on Aug 30, 2022 Maintainer

I have discussed with @ambroise-arm and AWF software architects regarding TVM.

Here's the slides with the minutes: TVM Status.pdf

Here's the summary:

- Although we have decided to use TVM as inference engine in Autoware in the past discussion, we will still make it as a "recommended" inference engine until we have enough performance evaluated in Autoware and also have enough developers who can write/review TVM packages.
- Also, we would have to train more developers who can use TVM. As a starting point, @angry-crab will try to learn it. @mitsudome-r will also check CoE if there are anyone who is interested in learning the library as well.



0 replies