

# Localization & Mapping WG Meeting

## 2024/08/28 #5138

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



armaganarsln on Aug 29

Collaborator

edited ▾

### Administrative

- [Previous meeting notes](#)

### Attendees

- Chaired by Armağan Arslan (Leo Drive)

### Agenda:

- Introduction of new attendees
- Agenda confirmation
- Discussion new technologies for 2025
- Radar - Lidar calibration results (Anweshan)

### Discussion topic:

- Introduction of new attendees
  - None
- New Research Areas:
  - Using SD Maps and traffic information for path planning:
    - <https://www.mapbox.com/autopilot-map>
    - <https://github.com/orgs/autowarefoundation/discussions/4120>
    - <https://github.com/orgs/autowarefoundation/discussions/5113>
    - <https://github.com/orgs/autowarefoundation/discussions/4545>
  - New Mapping Techniques
    - <https://github.com/LoveFaFa2333/Awesome-Online-Vector-Map>
    - InsMapper: Exploring Inner-instance Information for Vectorized HD Mapping: <https://arxiv.org/pdf/2308.08543>
    - Centerline Det: <https://arxiv.org/pdf/2209.07734>
    - HDMap NEt. <https://tsinghua-mars-lab.github.io/HDMapNet/>
    - StreamMapNet: <https://arxiv.org/pdf/2308.12570>
    - Maptracker: <https://arxiv.org/pdf/2403.15951>
  - New techniques for environment generation and usage under simulation:

#### Category



Working group meetings

#### Labels

meeting:localizatio...

1 participant



- Autosplat: <https://arxiv.org/pdf/2407.02598>
- 3DGS: <https://github.com/graphdeco-inria/gaussian-splatting>
- Driving gaussian: <https://pkuvdig.github.io/DrivingGaussian/>
- Nvidia (Emernerf) : <https://www.youtube.com/watch?v=vgot-CK1xRk>
- Tesla: [https://youtu.be/ODSJsviD\\_SU?t=6466](https://youtu.be/ODSJsviD_SU?t=6466)
- Aimotive (Gaussian Splatting): <https://www.youtube.com/watch?v=Ad4dFNxt1Q8>

- Online Calibration and Turning MapLoc to CaMaLo or Maloca
  - Not clear yet, and not fully supported.
- Anweshan shared radar-lidar calibration and data collected
- Evaluation of Localization Performance with a New Map (Melike)
  - Ongoing
- TU/e Eindhoven becoming a member - AA will check

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**0 comments**