

Computer Vision and Deep Learning for Autonomous Driving (CVDLAD)

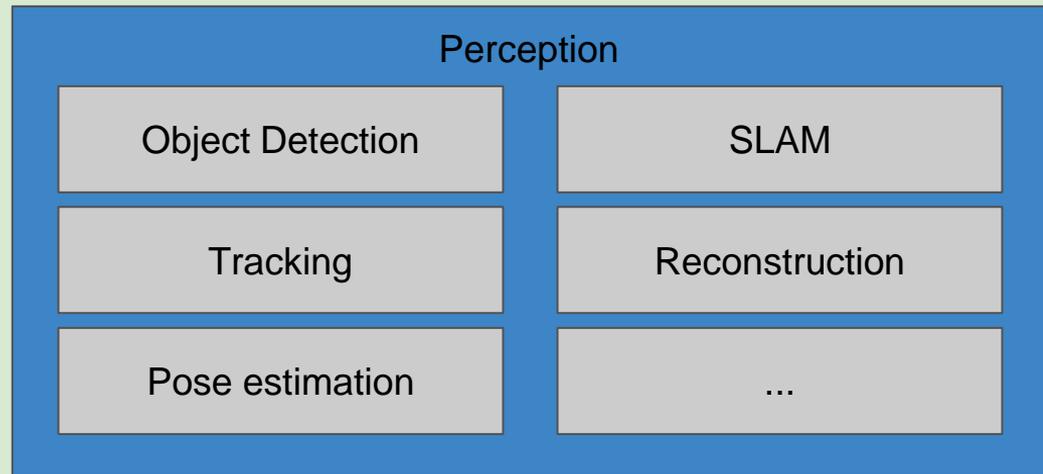
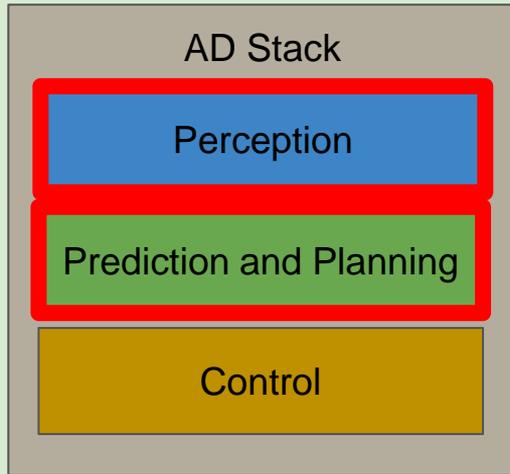
Introductory meeting - Winter semester 2020/21

PD Federico Tombari

Tutors: Nikolas Brasch, Mahdi Saleh, Shun-Cheng Wu,
Fabian Manhardt, Yanyan Li

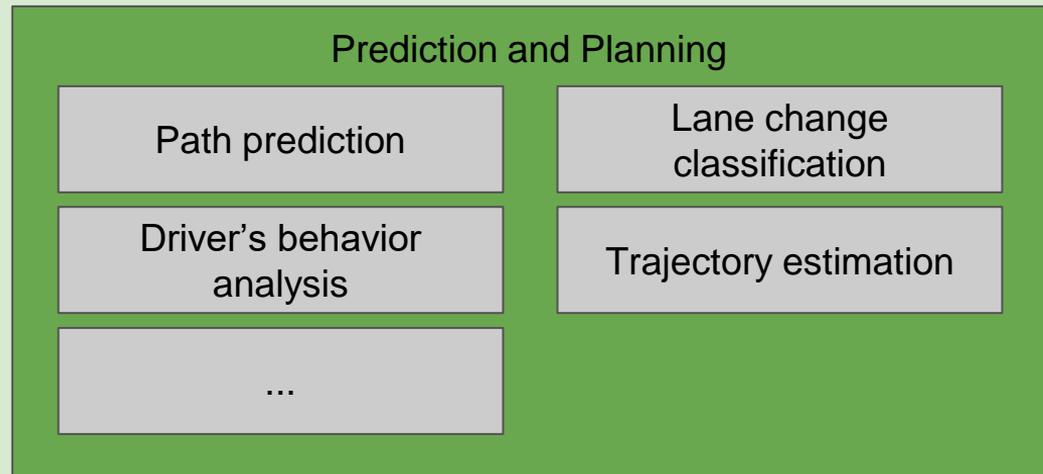
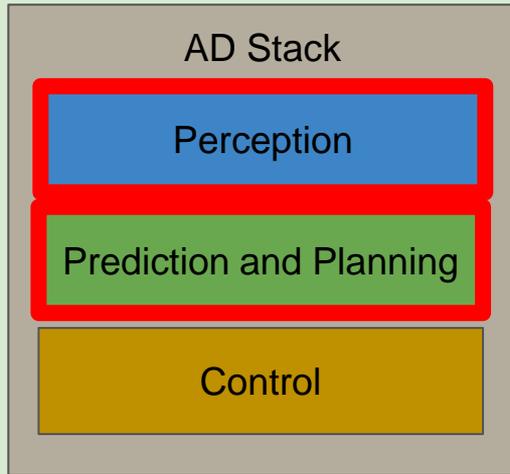
Seminar contents

- The seminar includes a selection of the most recent and relevant papers in the field of computer vision and deep learning for autonomous driving



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Goals

- You are going to learn:
 - about the state of the art in Computer Vision and Deep Learning
 - about current challenges in Autonomous Driving
- And also:
 - how to read and understand a scientific article
 - how to give a tech talk to an audience, and related Q&A
 - how to condense a scientific topic into a short and precise article for a broad audience

Presentation

- Each presentation is 15-20 minutes + 10 minutes for Q&A
- Slides templates (Powerpoints, Latex, ..) provided on website

- The presentation should cover all relevant aspects of the paper
 - Introduction and state of the art
 - Main contribution(s)
 - Experimental results
 - Discussion, summary and future work
- The presentation should be self-contained
- All students are expected to attend all presentations and interact during Q&A (this will influence your final mark)

Blog article

- The blog article should summarize the paper in the way it has been presented during the talk, and provide the student's opinion concerning the main contributions and impact
- Language: English
- Once ready, send the article to supervisor, within **two weeks** from the day of the presentation
- Format: **Gitlab.lrz.de** Markdown document
- Size: Around **2000-3000 words**

Evaluation criteria

- Quality of presentation (slides and speech)
 - Quality of the talk
 - Quality of the slides
 - Q&A
- Quality of the blog article
- Interaction and participation during the other talks

Application

- Register your choices via [TUM matching system](#)
- To increase your chances you are encouraged to submit a motivation letter:

<https://wiki.tum.de/x/84RqEw>

- Name and email
- Study program and semester
- A text summarizing your motivation
- (not mandatory) you can submit your latest CV, transcripts of records or both
- Deadline 21.07.2020