Computer Vision and Deep Learning for Autonomous Driving (CVDLAD)

Introductory meeting - Winter semester 2020/21

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Tutors: Nikolas Brasch, Mahdi Saleh, Shun-Cheng Wu, Fabian Manhardt, Yanyan Li
Goals of this seminar

● 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
Seminar Schedule

- 5 sessions on Friday (4-6pm) between November and January
- 3 presentations per session (15/20 min presentation + 10 Q&A min each)
- External talks from industry experts
- All Virtual (via Zoom)

You have now been assigned a tutor and a paper - you can get in touch with your tutor if you haven’t yet.
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](https://gitlab.lrz.de) Markdown
- Size: Around **2000-3000 words**
- Examples: [GcGAN](https://gcn.github.io/), [MonoDepth](https://github.com/mutlu-kaynak/MonoDepth)
Evaluation criteria

- Quality of presentation (slides and speech)
  - Talk and explanation (including speaker’s preparation on the topic)
  - Slides and presented material
  - Q&A
- Quality of the blog article
- Interaction and participation during the other talks
Any questions?