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Advanced Deep Learning for Computer Vision

The Team

Lecturers



Prof. Dr. Laura
Leal-Taixé



Prof. Dr. Matthias
Niessner

Tutors



Dave
Chen



Ji
Hou



Tim
Meinhardt



Maxim
Maximov

What is this course about

- Presentation of advanced Deep Learning methods for various Computer Vision tasks
- Focus on new methods, some of them presented only this year! There will be extra references, many opportunities for you to dig deeper into the topics
- Research-oriented course

While we go over new methods...

- You have to come up with your own ideas to solve a specific vision problem!
- Strong focus on the practical side: semester-long project where you can put all the knowledge to practice

IMPORTANT

- The project is VERY time-consuming, we are aware.
- Since the project is done in teams of 2, we want to avoid students dropping mid-semester!
- Please think carefully whether you have the time this semester to dedicate a lot of time to ADL4CV, if not, we kindly ask you to consider to take the course another semester.

Course organization

About the lecture

- Theory: 12 lectures
 - Every Monday **10:00-11:30h** & Friday **14:00-16:00h**
 - ~~Seminar Room, 02.13.010~~ online!
- Practical:
 - Project to be done in groups of 2 (non-negotiable!)
 - Presentations during the semester (we will see how)
 - Final poster presentation

<https://dvl.in.tum.de/teaching/adl4cv-ss20/>

Grading system

- Exam: tbd
- Review: 2 review sessions
- Practical part = $\frac{2}{3}$ of the grade
- Exam = $\frac{1}{3}$ of the grade

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Project deadline

- 24.04., Friday: project presentation
- 04.05.: project assignments (projects <-> TAs)
- 11.05., midnight: deliver a 1 page abstract of your idea for the project.
- Until 15.05.: Evaluation of the project and feedback

Project evaluation

- Presentations: everyone needs to attend!
- First presentation: first results, challenges
 - 08.06: Groups #1
 - 12.06: Groups #2

Project evaluation

- Presentations: everyone needs to attend!
- Second presentation: almost final results, new things you tried
 - 06.07.: Groups #1
 - 10.07: Groups #2

Project evaluation

- Presentations: everyone needs to attend!
- 20.07.: final deadline on report (deadline noon)
 - Max 4 pages using CVPR template
- Final presentation = POSTER
 - Date 24.07. 14:00-16:00

Grading system

- Exam = $1/3$ of the grade
- Practical part = $2/3$ of the grade
 - Presentations (2 oral pres. + 1 poster) = $1/3$
 - Final report = $1/3$
 - Code/submission = $1/3$

Following up with the projects

- Each project will be assigned to a TA and you will have weekly office hours to discuss the progress
- These will be announced after the projects are approved

Slides

- Moodle is set up! Lecture will be entirely online.
- Slides will be posted on Moodle and on the website:

<https://dvl.in.tum.de/teaching/adl4cv-ss20/>

- Questions regarding organization of the course:

adl4cv@dvl.in.tum.de

- Emails to our individual addresses will not be answered!

Teams

- Teams of two per project!
- Moodle is set up!
- If you do not have a team
 - Chat after the lecture
 - Post it on Moodle

Project Timeline

- April 24th Project proposal presentations
- May 4th Projects Assignments (and TA assignments)
- May 11th Abstract Submissions (midnight)
- Until May 15th -> Feedback Projects
- 8th + 12th June -> First presentations (group #1, #2)
- 6th + 10th July -> Second presentation (group #1, #2)
- July 20th -> Deadline report (noon)
- July 24th -> Poster Presentation (14-16h)

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