

# Introduction to the Seminar Course of Cyber-Physical Systems

Prof. Dr.-Ing. Matthias Althoff  
Group of Cyber-Physical Systems

Technische Universität München

October 2015

# General Information

- The course will be conducted in a **block format**, with meetings during the semester.
- The presentation and the report are recommended to be completed in **English**.
- **Requirements:** General interest in computer science, control theory, energy or robotics.

# Goals of the Course

- **Find** scientific papers in a specific area.
- **Read** scientific papers.
- **Review** the literature on a specific topic.
- **Write** a scientific report.
- **Present** the work.

# The Seminar in Practice

- In this class: Choose the **supervisor** and the **topic**.
- In the following three months: Read papers and prepare the **presentation** and the **report**.
- In the following three months: Discuss with your supervisor about the presentation and the report.
- In the beginning of January: Presentation and get feedback.
- In the mid of January: Send the **revised** report.

## Report (Term Paper)

- Each participant is required to complete a **6-** to **8**-page-report, a **4**-page-appendix can also be included (optional).
  
- The final report should be completed **one week** after the scheduled presentation.

# Presentation

- Each participant is required to give a **20 minutes** presentation and prepare for **10 minutes** of follow up discussion.
- Explain the **motivation** and **goal**.
- State of the art and **method comparison**.
- Results and include **your own conclusions**.
- Details for grading the presentation and report will be provided on the course webpage.

# Evaluation Criteria

- Presentation (40%)
  - the score of presentation is the average score based on the grading of each supervisor who attends the presentation.
  
- Report (60%)
  - The report will be marked by two people: the students own supervisor and another randomly chosen supervisor.

## Concluding Remarks

- The time and place of presentation evaluation will be given on our course webpage (expected to be at FMI in the beginning of January).
- Extra **participation points** will be given based on the quality of questions proposed in the discussion part.
- The **duration** of the presentation will be strictly controlled. We will ask you to jump to the conclusions if the indicated duration is exceeded.