

# Introduction to the Seminar Cyber-Physical Systems

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## General information

- **Structure:** Block format with irregular meetings during the semester
- **Requirements:** General interest in computer science, control theory, energy systems, or robotics
- **Goal:** Reach the state of the art of one scientific topic

## Your tasks

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

# Timeline

- **In today's lecture:** Choose the advisor and the topic
- **In the following three months:** Review papers and prepare the presentation and the report
- **Along the way:** Discuss your work with your advisor
- **In the middle of January:** Give your presentation and get feedback
- **In the end of January:** Submit your final report

## Specific dates

- 29.11.2016, 10:00 - 11:00: Lecture on presentation skills
- 12.01.2017, afternoon: Session I for student presentations
- 13.01.2017, afternoon: Session II for student presentations
- if needed 11.01.2017, morning: Session III for student presentations
- 7 days after your presentation: Submission deadline of the final report
- Any concerns?

# Presentation

- Each participant is required to give a presentation.
- **Duration and Language:** 20 minutes in English
- **Content:** Results of your literature review:
  - Motivation
  - State of the art
  - Discussion
  - Conclusion
- **Discussion:** After each presentation, 5 minutes of questions

# Report

- Each participant is required to complete a report.
- **Scope and Language:** Six to eight pages in English (A short appendix can be included optionally.)
- **Content:** Thorough and scientific documentation of your literature review
- **Submission:** To your supervisor at the latest one week after the scheduled presentation

## Grading criteria

- The grading criteria for the presentation and the report will be provided on the course website.
- The presentation weights 40% of the total grade and will be determined by all advisors in the presentation session.
- The report weights 60% of the the total grade and will be marked by the student's own and another randomly chosen advisor.

## Concluding remarks

- All information and material for this seminar, including templates for the presentation and the report, are on the course website:  
<https://www6.in.tum.de/Main/TeachingWs2016SeminarCyberPhysicalSystems>
- The library offers courses on finding and citing literature:  
<https://www.ub.tum.de/en/taxonomy/term/666>
- The department of Informatics published a guideline on good scientific conduct: *Grundsätze guter studentischer Praxis* available only in German on [http://www.in.tum.de/fileadmin/user\\_upload/Studienberatung/leitfaden-de\\_2016Jun22.pdf](http://www.in.tum.de/fileadmin/user_upload/Studienberatung/leitfaden-de_2016Jun22.pdf)

# Questions

- Any questions?
  
  
  
  
  
  
  
  
  
  
- **Now:** Assignment of the remaining topics