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
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 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
Questions

- Any questions?

- **Now**: Assignment of the remaining topics