Introduction to the Seminar Cyber-Physical Systems

Markus Koschi

Prof. Dr.-Ing. Matthias Althoff
Cyber-Physical Systems Group
Technische Universität München

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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**: Evaluate the state of the art of one scientific topic

- **Information**: Updated information is available at the course website
Your tasks

- **Find** scientific papers in a specific area
- **Read** scientific papers
- **Review** the literature on a specific topic
- **Design** a prototype (e.g. implement an example)
- **Write** a scientific report
- **Present** your results
Timeline

- **In today’s lecture:** Choose the advisor and topic, if not assigned yet
- **In the following two months:** Complete your tasks
- **Along the way:** Discuss your work with your advisor
- **In the middle of July:** Give your presentation and get feedback
- **In the end of July:** Submit your final report
Specific dates

- **02.05.2017, 10:00 - 12:00**: Literature Research Workshop (in the Branch Library Chemistry, room 11140)
- **03.07.2017, 14:00 - 15:00**: Presentation Workshop
- **12.07.2017, afternoon**: Session I for student presentations
- **17.07.2017, afternoon**: Session II for student presentations
- **if needed 11.07.2017, afternoon**: 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 topic:
  - 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:** 6 to 8 pages in English (A short appendix can be included optionally.)

**Content:** Scientific presentation of your seminar work

**Submission:** To your supervisor at the latest 7 days after your scheduled presentation
Grading criteria

- The grading sheets 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: http://www6.in.tum.de/Main/TeachingSs2017SeminarCyberPhysicalSystems

- 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 at http://www.in.tum.de/fileadmin/user_upload/Studienberatung
Questions

- Any questions?

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