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# Seminar in Real-Time Systems

Prof. Dr. Jian-Jia Chen

**LS 12, TU Dortmund**

April 24, 2014

# Administrativa

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- Masters seminar
- Workload
  - SWS: 2
- Deliverables
  - Report (5 pages): This is not going to be graded, but I will read the report to check whether you have sufficiently cover the material to be presented in the slides.
  - Presentation (30-45 mins)

# Important Dates

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## Block seminar format

- 24.04 Organizational Meeting
- 02.05-07.05 Choose a topic in person via Secretary (Frau Claudia Graute)
- 10.07 Report due (turn in to the Secretary before 12:00 (noon))
- 17.07 Draft slides due (send the slides to Prof. Chen before 12:00 (noon))
- 24.07 Presentations (block), Details will be announced later.

# Real-Time Systems

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- Dual notations of correctness:
  - **Logical** correctness (“the results are correct”)
    - Requires functional analysis
  - **Temporal** correctness (“the results are delivered in/on time”)
    - Requires non-functional analysis
- High reactivity and high dependability are more important than performance

# Topics

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Listed in

<http://ls12-www.cs.tu-dortmund.de/daes/de/lehre/english-courses/ss14-seminar-qreal-time-systemsq.html>

# Approach

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- Choose one of the above topics (or the advanced topics, approved by me)
- Decide two to three papers that are related to the selected topics
- Write a report and summary for the selected literature
  - What are the weakness and the strength of the results of the selected papers?
  - What are the state-of-the-art results of the topic?
  - What perspectives the selected papers move the state-of-the-art to?
  - What are the potential direction to improve the results of the selected papers and the topic?
  - etc.
- The report is not going to be graded, but I will read the report to check the material you plan to cover in the presentation. If you receive a **RED** or **YELLOW** signal from me, you should try to improve your understanding about the literatures.
- Present the results.

# Office Hours

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My office hours are Wed. 10:30 to 11:30. Please make appointments if you need to discuss with me about the papers. Other time slots are also possible.

If more intensive discussions are needed, some of my staff members will also be able to help you.

# Templates and Material

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The templates will be available in May. Please check the course website.

Papers in RTAS 2014 are not available yet from the Internet. Please download them from LS12.

<https://ls12-www.cs.tu-dortmund.de/ls12-intern/library/proceedings/cpsweek2014/index.html>

Username `rts<thisyear>`

Password `A2KL2pEM`