

Proseminar Real Time Systems

Introductory Meeting

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Theory of Hybrid Systems
Informatik 2

SS 10

Contents (rough)

- Formal modeling of real world scenarios
- Properties for such systems
- Automatic error analysis of systems

Goals of this proseminar

- Independent elaboration of a topic
- Structured scientific working
- Development of a short paper
- A good talk addressing the other students
- Literature research
- $\text{\LaTeX}$ skills

Paper and Talk

Paper

- 6 pages
- Font size 12pt
- Text begins on titlepage
- No index of contents
- Spell checker
- Paper has to be written in $\text{\LaTeX}$

Talk

- 20 minutes
- Talk is for other students
- $\text{\LaTeX}$ -Beamer

Important Dates

04.05.2010	Contact supervisor
25.05.2010	Structure of paper
15.06.2010	Paper ready
29.06.2010	Final paper
13.07.2010	Slides ready
20.07.2010	Final slides
tba	Presentation

- 1 Classification of Hybrid Systems (Paul Zakalek, Betreuung: Xin Shen)
- 2 Geometric Representation of State Sets (Matthias Volk, Betreuung: Xin Shen)
- 3 Modeling of Examples (Models and Properties) for Hybrid Systems (Jens Katelaan, Betreuung: Ulrich Loup)
- 4 BMC-based Solving (Johannes Krude, Betreuung: Ulrich Loup)
- 5 Introduction to Probabilistic Systems (Benjamin Meister, Betreuung: Nils Jansen)
- 6 Tools for Probabilistic Model Checking (Joern Lenocho, Betreuung: Nils Jansen)
- 7 Real Time Logics (Sebastian Junges, Betreuung: Erika Ábrahám)
- 8 Tool: Real Time Mod (Arne Doering, Betreuung: Erika Ábrahám)
- 9 Tools: Zeitautomaten (Karolin Koehler, Betreuung: Nils Jansen)