Intelligent
Embedded Systems

Introduction to Seminars at IES

Bernhard Sick

Intelligent Embedded Systems Group (IES)
University of Kassel

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Agenda

1. General Information
2. Seminar Procedure
3. Grades
4. Appointments

General Information

- Topics in the area of machine learning
- Every participant needs to write a paper, review other's papers and present the work
- Papers can be written in German or English
- Writing the paper with LaTeX is recommended (no obligation)

Course: “Bachelorseminar im FG IES: Machine Learning”

- Topics from research in the area of machine learning
- Introduction to scientific writing with “textbook” sources
- Paper should explain the topics for B.Sc. students in computer science
- Number of pages: approx. 14 (LNCS style)

- Examination regulations and credits:
  - B.Sc. Computer Science (PO 2010) => 4 Credits
  - B.Sc. Computer Science (PO 2018, PO 2020) => 3 Credits

Course: “Masterseminar im FG IES: Machine Learning”

- Topics from research in the area of machine learning
- More up-to-date research, independent literature search
- Paper should explain the topics for M.Sc. students in computer science
- Number of pages: approx. 20 (LNCS style)

- Examination regulations and credits:
  - M.Sc. Computer Science (PO 2012, PO 2018) => 4 Credits

Course: “Seminar Smart Systems”

- Topics from research in the area of machine learning
- More up-to-date research, independent literature search
- Paper should explain the topics for M.Sc. students in computer science
- Number of pages: approx. 20 (LNCS style)
- **Additional work for 2 Credits!** E.g. prototypical implementation of work described in an article (has to be discussed with your supervisor)
- Examination regulations and credits:
  - M.Sc. Mechatronik (PO 2009, PO 2017) => 6 Credits

Seminar Procedure I

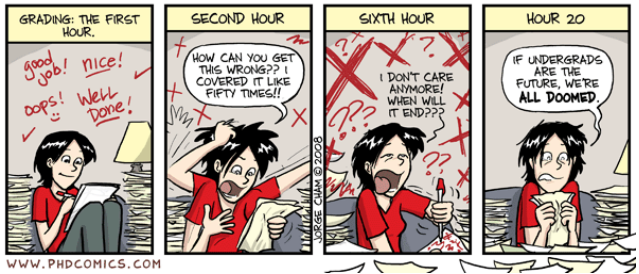
1. Topic selection
2. Registration (HIS)
3. Literature research
4. Determine the structure of the paper
5. Elaboration of the topics
6. Submission of the first draft of the paper
   Having finished 50% of the work is obligatory to continue.

Seminar Procedure II

7. Peer review of other papers
8. Fine tuning your paper (incorporate the review feedback)
9. Final submission of the paper (camera-ready)
10. Conference:
    - Presentation of the topic.
    - Short discussion about the topic
    - **You have to pass the presentation to pass the course!**

Grades

- $\frac{1}{2}$ Final Paper (camera ready)
- $\frac{1}{3}$ Presentation: Failing the presentation means you will not pass the course.
  - 20 minutes presentation
  - 5 minutes questions
- $\frac{1}{6}$ Participation
  - in the review process
  - at the conference discussion



Appointments and Deadlines

1. approx. 09.06.2024: Topic selection (first come, first serve)
2. approx. 15.06.2024: Binding registration (HIS)
3. tbd crash course
4. approx. 07.07.2024: Literature research and determining the structure of the paper with your advisor.
5. approx. 06.08.2024: Submission of the first version of the paper
6. approx. 18.08.2024: Peer review submission
7. approx. 02.09.2024: Final paper submission (incorporate the reviews)
8. tbd September: Presentation and Discussion

Crash course at (time to be found), WA73, R0303c:

Part 1: How to search for good papers?

Part 2: How to work with AI-based tools?

Part 3: Tips and tricks to write a paper with LaTeX (Video)

Any Questions?

- Topics are listed in the Moodle course
- Topic selection starts at tbd (first come, first serve)