Seminar Summer Term 2014
Dynamics of Knowledge and Belief

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Seminar Dates:
- Introductory Meeting: Wednesday, March 18th 2014
- Talks: One to three days of talks, first week of August

Location:
All meetings take place in Seminar Room I5 (6202)
Given literature is a starting point for own literature search. You need to read a number of references to complete the picture!

- Seminar paper and talk should be in English!
- Prepare the paper and the slides preferably with \LaTeX
- About 20 pages (including references)
- Your paper will need multiple iterations
The review should help your fellow student to improve his seminar paper and prove that you read it thoroughly!

- Summary of the seminar paper (e.g., 3 sentences)
- Things you liked about it (e.g., 1 paragraph)
- Major comments (e.g., what’s hard to understand?)
- Minor comment (e.g., typos)
Talk

Slides to **condense and support transfer of your knowledge.** Be brief and precise so your listeners can follow!

- Talk must be in English
- Presentation should be $\sim 35 \text{ min } + 10 \text{ min discussion}$
- Prepare the slides preferably with \LaTeX
- Contact your adviser in case of questions
Up to three weeks \textbf{from now on} you are allowed to recede from the seminar without any consequences. A later rescission will be graded as a failed attempt!
specialized training on literature search:
small groups (up to 6), individual examples,
local and supra-regional catalogs and databases

Presentation: distinguishing different types of literature

acquisition of literature:
delivery service, full text search,
lending and interlending, etc. pp.

guided tour: the CS-Library and what it has to offer

rally: practical exercise

length: 2 h

Participation mandatory if not already completed!
Formal accounts for:

- What do I know (initially)?
- Closed World Assumption: if I don’t know something, it’s false
- How to learn new things (sensing)?
- How to revise beliefs?
- How to plan with beliefs?

Logic will be very important!
Topics

1. Knowledge and Action
2. Progression
3. Classic Belief Revision
4. Belief Revision under Action
5. Proper Knowledge Bases
6. Noisy Sensors
7. Modal Situation Calculus
8. Planning and Sensing
9. Limited Belief
10. Continual Planning
11. Conformant Planning
We use a conference system:
https://www.easychair.org/conferences/?conf=semdbkb2014
Deadlines are strict!

Five stages:

1. Understand literature, discuss it with your advisor  2-4 weeks
2. Write and submit the seminar paper  8-10 weeks
3. Read and review fellow students’ seminar papers  2 weeks
4. Prepare final seminar paper and slides  2 weeks
5. Give talk, listen to others  early in August
2014-03-18: Introductory meeting
2014-03-18: Get an EasyChair account¹ today
2014-03-31 – 2014-04-18: Discuss literature with advisor 2–4 weeks
2014-06-20: Paper submission deadline² 8–10 weeks
2014-07-04: Review deadline³ 2 weeks
2014-08-01: Paper camera-ready version⁴ 2 weeks
2014-08-04 – 2014-08-08: Seminar talks 1–3 days

To keep the deadlines: submit early and often!

¹https://www.easychair.org/conferences/?conf=semdkb2014
²By this date you *must* have submitted
³By this date you *must* have written and submitted your reviews
⁴By this date you *must* have submitted your final seminar paper