Seminar Summer Term 2013
Plan and Activity Recognition

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Organization

Website:

`http://www.kbsg.rwth-aachen.de/teaching/SS2013/SemPAR`

Mailing list:

`semss2013par@lists.kbsg.rwth-aachen.de`

Seminar Dates:

- Introductory Meeting: Wednesday, April 11th 2013
- Talks: One or two days of talks, August 1st/2nd?

Location:

All meetings take place in *Seminar Room I5 (6202)*

Seminar Paper

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
- Contact your adviser in case of questions, submit early!

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 ∼35 min + 10 min discussion
- Prepare the slides preferably with LaTeX
- Contact your adviser in case of questions

Prepare slides immediately after writing your seminar paper!

Rescission Policy

Up to three weeks **from now on** you are allowed to recede from the seminar without any consequences.
A later rescission will be graded as a failed attempt!

Library Tour/Training

- 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!

Topic: Plan and Activity Recognition

Your will work on current research papers on

- **activity recognition**, i.e. detect a human's behavior based on sensor input, e.g. camera images
- **plan recognition**, i.e. infer a human's higher level intention from his lower level actions

Topics

1. Vision-based activity recognition
2. Activity recognition algorithms (e.g. HMMs)
3. Ontology-based activity recognition
4. Abnormal activity recognition

5. Plan Recognition by Planning
6. Policy Recognition in the Abstract Hidden Markov Model
7. Lexicalized Intent Recognition
8. Probabilistic Grammars for Plan Recognition

Schedule

Due Dates

May 17th	literature list and seminar paper outline
June 14th	seminar paper draft due
July 1st	**final** seminar paper (∼20 pages)
July 22rd	**final** version of slides
∼August 1st/2nd	talk of about 35 min + 10 min discussion

Contact your adviser

- with the appropriate results at the given deadlines
- in case of questions (be specific!)

Respect your adviser's response time!