Website:
http://www.kbsg.rwth-aachen.de/teaching/SS2012/SemR3

Mailing list:
semss2012rrr@lists.kbsg.rwth-aachen.de

Seminar Dates:
- Introductory Meeting: Wednesday, April 11th 2012
- Talks: One or two days of talks, August 1st/2nd

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
- Contact your adviser in case of questions, submit early!
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 \(\sim 35\) 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!**
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!
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!
Your will work on current research papers on

- **reliable** robotics, i.e. repeatability of task execution and coping with variances and disturbances, and
- **robust** robotics, i.e. achieve tasks even in the presence of faults and failures in software and hardware

- Closely inter-twingled sub-topics
- Particular keyword for your research: execution monitoring
- Also: debugging and tool support for robotic applications
1. Expert Systems for Fault Detection
2. Execution Monitoring using Semantic Knowledge
3. Model-free Execution Monitoring in Behavior-based Robotics
4. Execution Monitoring in Data Estimation Processes
5. Debugging Large Multi-Robot Systems
6. Scalable Robot Fault Detection and Identification
7. Execution Monitoring of High-Level Robot Programs
8. Plan Reversals for Recovery in Execution Monitoring
Due Dates

- **May 23rd**: literature list and seminar paper outline
- **June 15th**: seminar paper draft due
- **July 2nd**: final seminar paper (≈20 pages)
- **July 23rd**: 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!