



EDAN50: Intelligent Systems: Project

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Plan for today

- Administrative stuff
- Projects, groups
- Planning for the rest of the term



About the course

- EDAN50: Intelligent Systems: Project
- <http://cs.lth.se/EDAN50>
- Serves as an announcement board as well!
- Meaning I expect you to read it when needed.
- Teachers: Pierre Nugues, Jacek Malec, possibly Maj Stenmark
- Administrator: Lena Ohlsson



Contents

- 7,5 hp (ECTS)
- Time span: 17–11/4, 5/5–23/5
- Scheduled meetings: 2 (intro and final presentation)
- Supervision every (teaching) week
- Home reading (textbook, papers, web, ...) and lab/home work
- You are assumed to have
 - AI background
 - programming experience

but

- We need your feedback ...



Evaluation

- Project performance: evaluated by the supervisor
- Result (code): evaluated by the supervisor
- Presentation during the last week
- Reports (to be filed in max two weeks after the term ends, i.e. not later than 8th June, Sunday).



Project proposals:

- 1 Robotics
- 2 Machine Learning
- 3 Natural Language Processing
- 4 Representation and Reasoning



End of the admin stuff

Questions? Comments?



Project Proposals (JM)

- 1 Genetic programming of a (simulated) robot controller. (Lisp)
- 2 Dynamic creation and adaptation of an intelligent user interface.
- 3 Rule-based reasoning (using semantic-web robot data) about robotic capabilities.
- 4 Simulation of robot behaviour using modern robot control environment (ROS).
- 5 Transforming natural language task descriptions into PDDL task specifications.
- 6 Transforming natural language scene descriptions into visualisations. (C#, ABB Robot Studio)
- 7 Robot programming using natural language task descriptions in Swedish. (C#, ABB Robot Studio)
- 8 Merging robotics ontologies.



Project Proposals (JM)

- 9 Computer game AI.
- 10 Theorem proving in active logic. (Prolog)
- 11 Assembly planning.
- 12 Mood recognition (webcam + NNs)
- 13 Knowledge editing/visualisation (Neo4j, Java)
- 14 ...