236501
Introduction to Artificial Intelligence
Fall 2004

Meeting Times and Locations

Lecture: *Tuesday 10:30-12:30, Taub 3, Ruth Bergman*
Recitation sessions: *Tuesday 14:30-15:30, Taub 7, Nela Gurevich*
Wednesday 9:30-10:30, Taub 9, Evgeniy Gabrilovich

Teaching Staff

	Office	Office Hours	Phone	E-mail
Ruth Bergman	318	Tuesday 9:00-10:00	5619 823-1237 x 304	ruth@hpl.hp.com
Evgeniy Gabrilovich	641	TBD	4948	gabr@cs
Nela Gurevich	328	Tuesday 16:00 -17:00	4613	nelka@cs

Course Description

This course provides a broad technical introduction and a survey of core concepts of artificial intelligence (AI). Topics include: history of AI, intelligent agents, search (search space, uninformed and informed search, game playing), knowledge representation, reasoning and planning (prepositional calculus, first-order logic, fuzzy logic), learning (decision trees, neural networks, genetic programming), uncertainty (probability, optimal decision making, Bayesian networks).

Prerequisites

Students are expected to have the following background:

- Data Structures (234218).
- Algorithms (234247) or Graph Algorithms (234246).
- Elementary knowledge of logic (234292 or 234293).

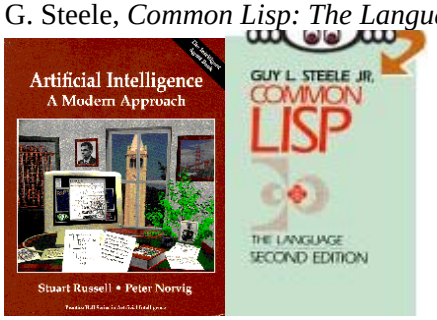
Things to do now

- Class mailing list is on GR++/Webcourse. You must subscribe to this mailing list. To do so, login at http://grades.cs.technion.ac.il, then go to Settings, Course List, and add the course number (236501) there.
- The course web page http://webcourse.cs.technion.ac.il/236501 contains critical course information. It is your responsibility to check this site often for course updates.

Course Materials

Textbooks:

S. Russell and P. Norvig, *Artificial Intelligence, A Modern Approach*
G. Steele, *Common Lisp: The Language, 2nd Edition*



Course handouts, lecture and recitation slides, and other materials may be downloaded from the course website.

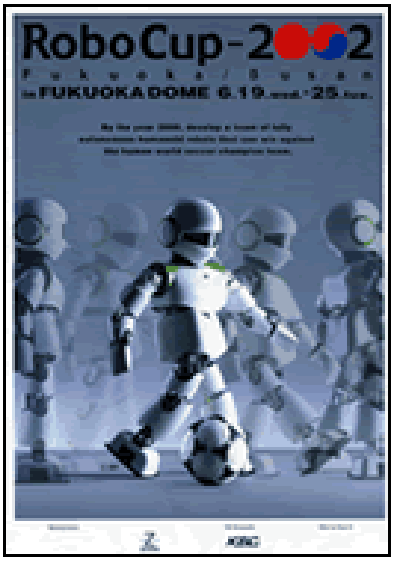
Programming Projects

- There will be three programming projects in the LISP language.
- We use Allegro Common Lisp on the UNIX workstations in the CS faculty computer farm. You may use you PC for the projects. The faculty is licensed to distribute a Windows version of the Allegro Common Lisp environment to students. You may borrow the software CD at the CS library.
- You may work on projects individually or in pairs. Each group must work independently from other groups.
- Updates regarding programming projects will be sent by email as well as updated on the course web site. You must check these frequently.
- If you cannot submit a project on time (e.g., due to milu'im), make arrangements for a postponing the deadline in **advance**.
- If you have questions about your project grade you must submit them within two weeks of grade distribution.

Grading

Students are responsible for all material presented in lecture and recitation sections.

Course grades will be based 40% on programming projects and 60% on the final. Please note the date and time of the final exam and make sure you can attend.



Final Exam

The final will be open book.
Moed A: Monday, February 21
Moed B: Monday, March 21