CS370: Symbolic Programming
Course Syllabus

Instructor

Jong Cheol PARK (park@cs.kaist.ac.kr , park@nlp.kaist.ac.kr , 869-3541)
Office Hours: Wednesdays 1:00pm~3:00pm at #2406 (CS Building)

Teaching Assistants

Heejin LEE (Head, #2408)
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Lecture Hours

3:30pm~4:50pm, Tuesdays and Thursdays,

Lecture Room

EECS #1101 (#1 Lecture Room)

Text Book

Bratko, Prolog Programming for Artificial Intelligence, Addison-Wesley, 3rd Edition, 2001.

Course Homepage

http://nlp.kaist.ac.kr/~cs370

Course BBS

http://noah.kaist.ac.kr/list.jsp?board=1167 ; noah/course/symbolic

Description

In this course, students will understand declarative programming skills, polish their creativity and practice teamwork through lectures, homework, and a project.

Evaluation

Attendance and Reading 15%
Homework, Quizzes and Projects 40%
Midterm Exam 20%
Final Exam 25%

Schedule

Date	Topic	Homework
2/ 27	Course Overview	
3/ 1	National Holiday	
6	Introduction to Prolog	
8	Syntax and Meaning of Prolog Programs	
13	Syntax and Meaning of Prolog Programs	HW1
15	Lists, Operators and Arithmetic	
20	Using Structures: Example Programs	HW2
22	Controlling Backtracking Project: Team Formation	
27	Project: Identification	HW3
29	Input and Output	
4/ 3	More Built-In Predicates	
5	Programming Style	
10	Project: Proposal	HW4
12	Operations on Data Structures	
17	Midterm Exam: 4/19, 3:30~6:30pm, #1101	
19		
24	Operations on Data Structures	HW5-1
26	Basic Problem-Solving Strategies	
5/ 1	Best-First Heuristic Search	
3	Problem Decomposition and AND/OR Graphs	
8	Project: Preliminary System Demo #1	HW5-2
10	Expert Systems	
15	Project: Preliminary System Demo #2	
17	Planning	
22	Project: Preliminary System Demo #3	HW5-3
24	Constraint Logic Programming	
29	Natural Language Processing	
31	Game Playing	
6/ 5	Game Playing	
7	Project: Final System Demo	
12	Final Exam: 6/14, 3:30~6:30pm, #1101	
14		