

Special Topics on Intelligent Systems Implementation and Applications

Course Description:

Throughout the course, we will study various subjects related with intelligent systems implementation and applications. These subjects include neural networks, reinforcement learning, intelligent signal sensing systems, architectures and system software supporting those AI algorithms and systems, etc. Applications of intelligent systems include radar systems, memory systems such as DRAM and SSDs, mobile systems, and embedded systems. Students are requested to design/implement intelligent systems and applications. This course is more interested in applying intelligent algorithms to those systems than in designing pure algorithms.

Instructor: Prof. **Soontae Kim**
Phone: (042) 350-3554 (office)
Email: kims@kaist.ac.kr
Web: <http://ecl.kaist.ac.kr>
Time: Wed: 1:00PM Fri: 1:30PM
Classroom : N1 #113

Grading Policy:

This course focuses on practical issues for designing and implementing intelligent systems and applications. Thus, it has no exam and focuses on learning intelligence systems and term project.

Final grade will consist of the followings (subject to change).

Two lecture-style presentations each 20%
Proposal and final presentations each 10%
Term paper 30%
Participation 10%

Lectures:

First lecture: Select research topics such as radar, SSD, DRAM, mobile system, embedded system, etc. Then give a lecture for your topic.

Second lecture: Select topics such as neural networks, reinforcement learning, and other intelligent algorithms. Then, give a lecture for your topic and show how you can apply it in your research topic.