

Toward an Understanding of Human Intelligence through Natural Language Processing

Communication Science Lab (Inui-Okazaki Lab)
Electrical Engineering Building 1, Room 661

Prof. Kentaro Inui (022-795-7091, inui@ecei.tohoku.ac.jp)

<http://www.cl.ecei.tohoku.ac.jp/>

Assoc. Prof. Naoaki Okazaki (022-795-7091, okazaki@ecei.tohoku.ac.jp)

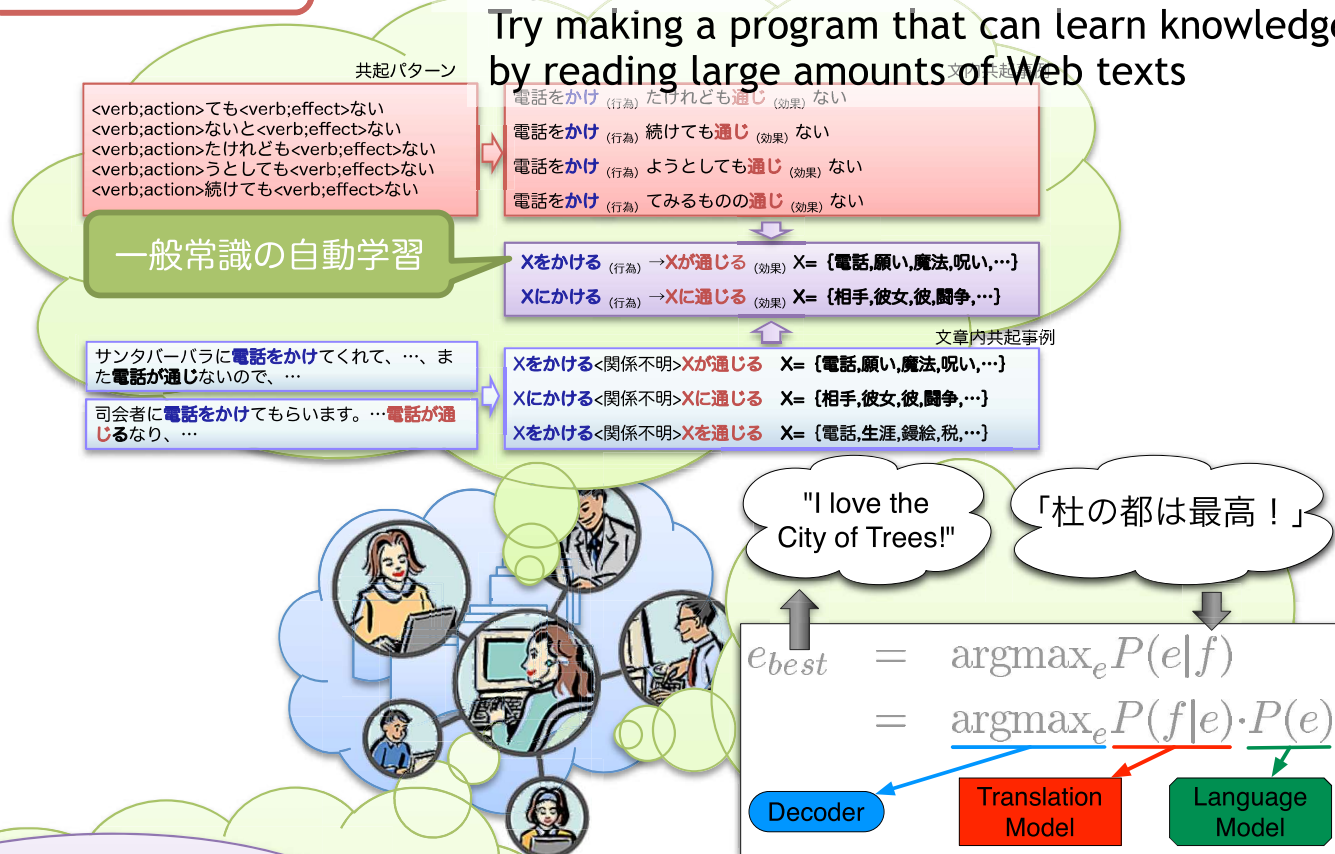
The most important medium for Communication Science is the **language** that we use every day – languages like Japanese and English. In Information Science, we call languages that people speak “**natural languages**” to distinguish them from programming languages and other formalizations.

In this course, we hope that you will gain an appreciation for how challenging and interesting it can be to make software that handle natural languages well by developing your own **Natural Language Processing** programs: AI software that processes the information and knowledge that is represented, transmitted, and stored in natural languages.

Example themes

1. Knowledge Acquisition from Large-scale Web Data

Try making a program that can learn knowledge by reading large amounts of Web texts



Yeah. The specs of the iMac have been completely refreshed.

It looks like new Macs have been released.

2. Creating a Chatbot

Try making a software agent that can chat with people

3. Improving Machine Translation

Try making advanced machine translation systems even better

Topics are not limited to these examples. Final topics will be decided based on the abilities and interests of the participants. The list of the themes that have been worked on by your upperclass students can be seen on our lab's website.