

Ibrk at the NTCIR-15 QA Lab-PoliInfo-2

Ryo Kato Minoru Sasaki

How to label agree or disagree

- We detected dissenting opinions from each party's final answers on the last day of the plenary session.
- We assign labels to the minority parties based on inferences of their positions from the information we collect from web pages and TrainingData, both those that lean toward the ruling party and those that lean toward the opposition.
- If we don't get it with the above two, we'll give a label in agree

Detection from the final debate

"Speaker": "四十七番 (西崎光子君)",
"Utterance": "私は、都議会生活者ネットワーク・みらいを代表し、**第百八十一号議案に反対**、
その他の知事提出議案に賛成の立場から討論をいたします。…"

- Determine the affiliation of the speaker by referring to the dictionary of the party affiliation
- Detecting dissenting opinions from the beginning of the statement of each party's representative
- The speaker's opinion shall be the opinion of his or her party.

Estimating Minority Party Trends

- We collect the factions that have the few chance to answer and estimate whether they lean toward the ruling party or the opposition.
- We assign the same label of opinion as the Communist Party to those factions presumed to be opposition-leaning.

Result

	miss	match	accuracy
none	180	4361	96.04%
+minority party	164	4377	96.39%

- 96.04% when there was no information on minority opinions and 96.39% when there was information on minority opinions.
- There was an increase in accuracy of 0.35%.

When there is a description of the "Opposition to the outside ○○ proposal".

"Speaker": "八十一番 (たぞえ民夫君)",
"Utterance": "日本共産党都議団を代表して、第百六十二号議案**外五議案**に反対する立場から討論します。…"

- If you are opposed to a large number of proposals together, such as "Opposition to the outside ○○ proposal", the "Speaker" refers to the proposals in the null and gives a label of opposition for the number of ○○ from the top of the list.

"Speaker": " null ",
"Utterance":
"…十二月十五日議事日程第四号¥n第一 **第百八十一号議案**¥n … ¥n第二 **第百八十二号議案**¥n … ¥n第三 **第百六十二号議案**¥n … ¥n第四 **第二百零議案**¥n … ¥n第五 **第二百一号議案**¥n … ¥n第六 **第一百七十二号議案**¥n … ¥n第七 **第一百五十四号議案**¥n … "

Summary

- The approach on minority groups was a major factor in improving accuracy
- It's difficult to extract opinions from a group that has little to say.