CADT Beamer Poster Template

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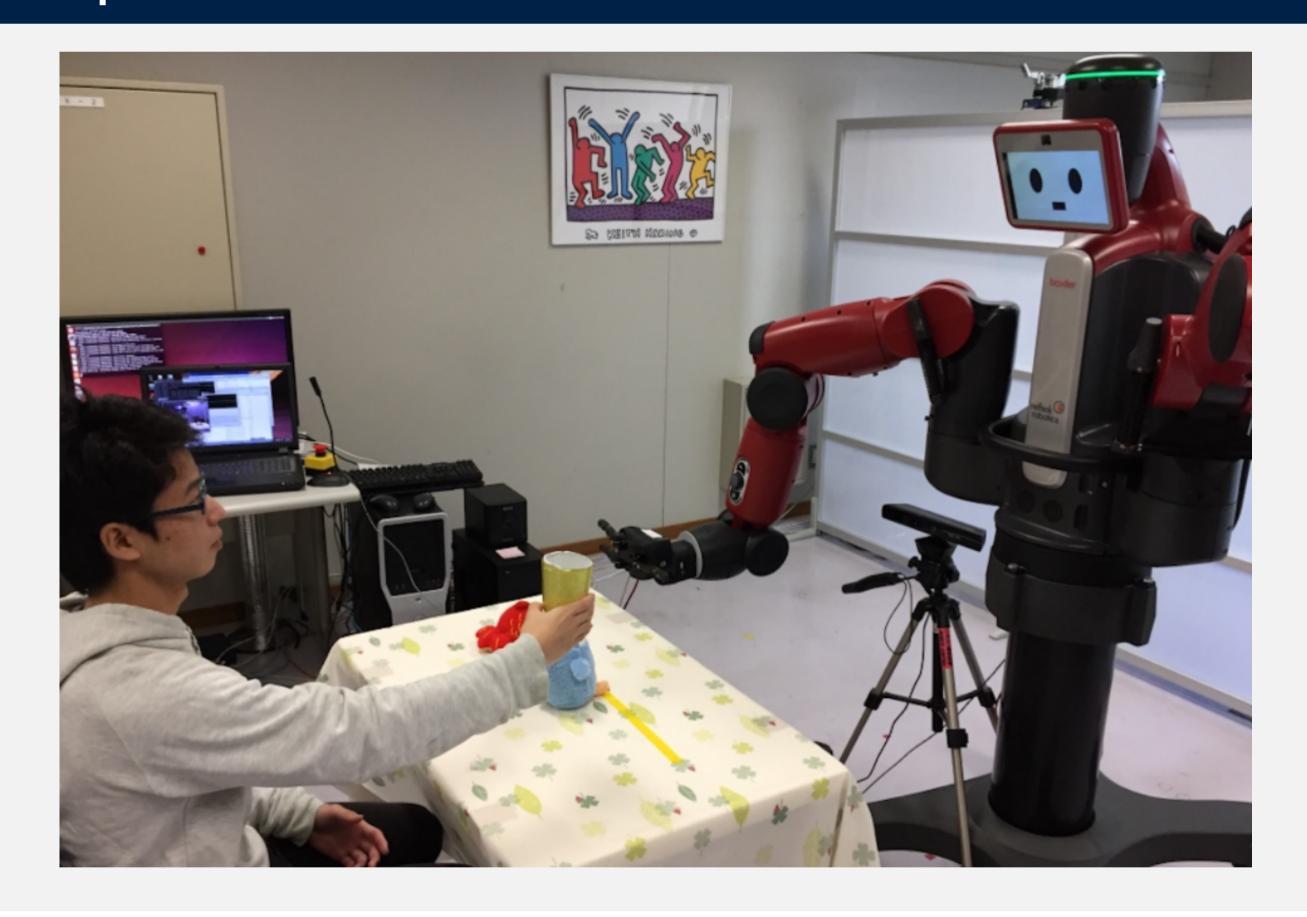
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1. Introduction

- **▶** Symbol Grounding × Chatting
- ➤ Research on language acquisition and symbol grounding (focus on the acquisition of physically grounded knowledge through utterances that express physical things, such as objects and motions)
- Most of the previous studies have focused on learning without any prior symbolic knowledge
- ➤ The problem of how to acquire physically grounded knowledge based on grounded utterances through natural interaction has yet to be explored
- ► We focus on object-teaching utterances as grounded utterances

2. Experimental Environment

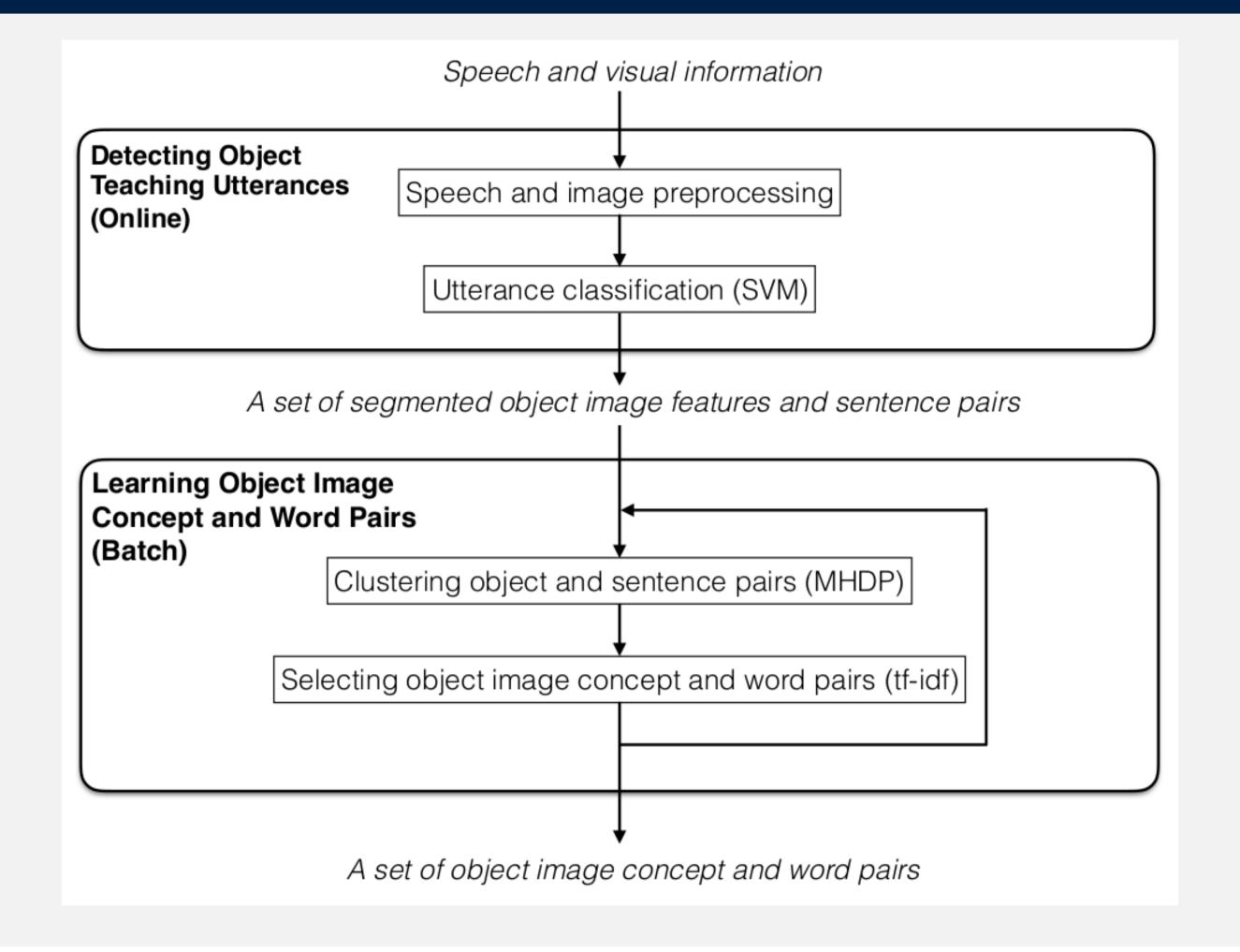


3. Example Dialogue

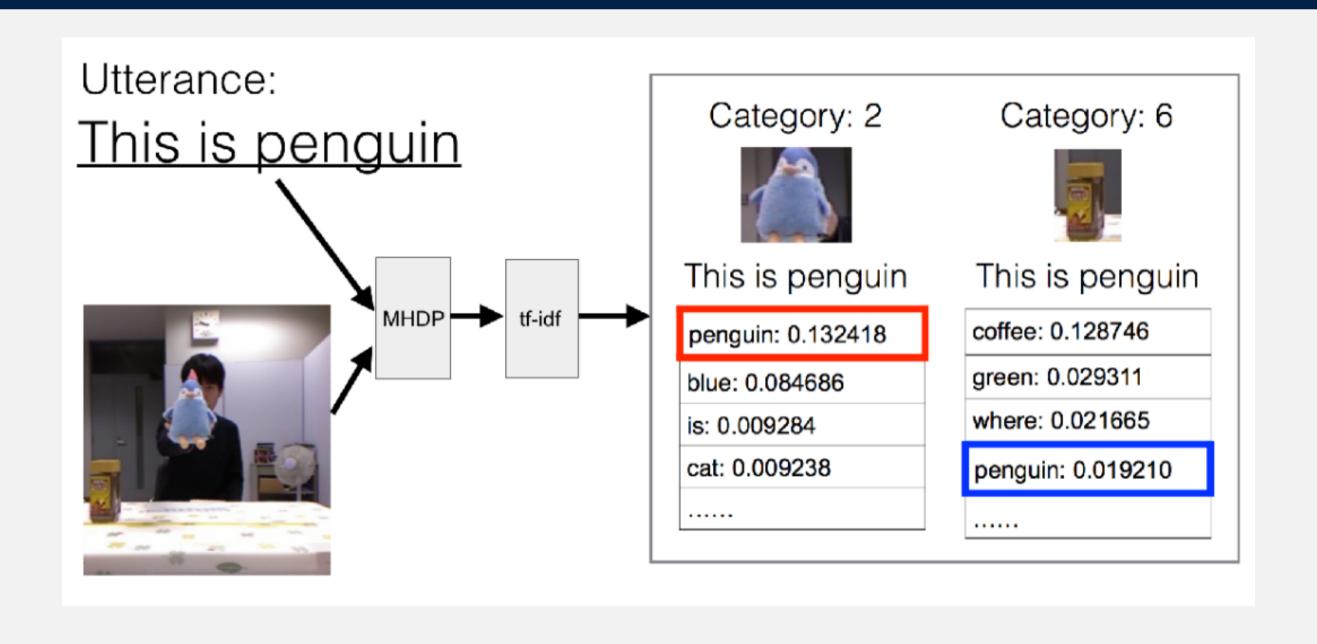
► Some examples of dialogue between human and robot:

Do you know any toys?	I am not familiar with toy.
Here is the stuffed toy.	Oh, I see.
Do you like animals?	I like dogs.
I like this penguin.	I got it.

4. Propose Method



5. Learning Method (MHDP+tf-idf)



6. Experimental Setup

The ten objects used in the experiment are: two black stuffed toy cats (small & big), two stuffed toy fishes (red & yellow), and two cups (red & yellow)



7. Results

Results...

Table 1:Results of learning accuracy of object and words (%) without loop 31% (61/196) 30% (59/196) 10% (19/196) with loop 35% (69/196) 57% (112/196) 28% (54/196)

Here,

- \triangleright P_w : probability of selecting correct word in each sentence
- \triangleright P_c : probability of selecting object image concept for each sentence
- $ightharpoonup P_{wc}$: probability of selecting both correct word and object image concept for each sentence
- Result: without loop < with loop</p>

Acknowledgments

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References

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 - //github.com/ye-kyaw-thu/papers/blob/master/HAI2017/hai2017-poster.pdf, 2017. [Online; accessed 28-June-2022].