Intelligent Conversational Bot YUN-NUNG (VIVIAN) CHEN WWW.CSIE.NTU.EDU.TW/~YVCHEN/S105-ICB

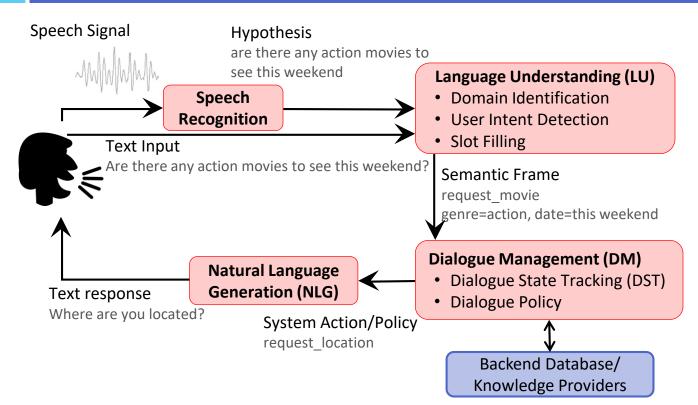
CONTINUULIS



國主臺湾大学 National Taiwan University

System Improvement

Framework



Demo System Release (Beta)

- Fill the form by testing other systems [link]
 - Record failed dialogues
 - Report to the owner team
 - X: cannot work; F: fail; S: success
 - Bonus if you test all other systems (due 6/9 Fri 23:59:59)
- Important!
 - Guide your users by showing some possible examples to start
 - Improve your systems by the failed dialogues
 - Final system scores will be judged using part of prior failed interactions

System Improvement

- Ontology: check whether all columns in the table can be searched as the target
- **LU:** evaluate the LU to see the *coverage* of the understanding module
 - Testing data should come from <u>real human</u>
 - Provide the system link to collect more dialogues and then annotate them for evaluation
- DM: add multi-turn interactions into the simulator for training the RL agent
 - The RL agent should handle misunderstanding better than the rule-based agent
 - Check whether the agent can handle misrecognized texts or misunderstanding
 - If the RL agent performs worse than the rule agent, increase your system complexity
 - More functionality/backend databases, more complex simulated interactions
 - Please check the strategies <u>this agent</u> applied to make sure your RL agent has increasing performance trend
- NLG: improve diverse and interesting responses
- Multimodality: try richer multimodality for interesting interactions
 - Emotion recognition, speaker recognition, etc for better greeting

Final Score

- System functionality
 - #tables, #slots, #intents
- System success performance
 - Human testing performance evaluated by TAs
 - ~30 dialogues
 - If the failed dialogues are fixed, we use the refined performance
- Evaluation
 - Correctness and reasonability
 - Testing data should be from real human instead of generated patterns

Creativity

- Multimodality usage (e.g. emotion)
- Diverse/interesting responses
- The poster template will be provided





Milestone Score

- Regrade if updating your system to support the failed interactions
 - Required documentations/programs can be resubmitted and regraded (max 80%)
 - TA will be evaluated via the teams' feedback