Woojin Choi

[1] Dohyun Kim, Jinwoo Kim, Minwoo Cho, and Daehyung Park. "*Natural Language-Guided Semantic Navigation using Scene Graph*". RiTA, 2022
[2] Soohwan Kim et al, "*Open-source toolkit for end-to-end Korean speech recognition*", Software Impacts Vol.7, 2021

Topic : English & Korean Automatic Speech Recognition for Understanding Voice-Commands
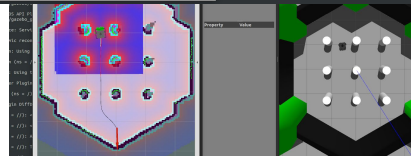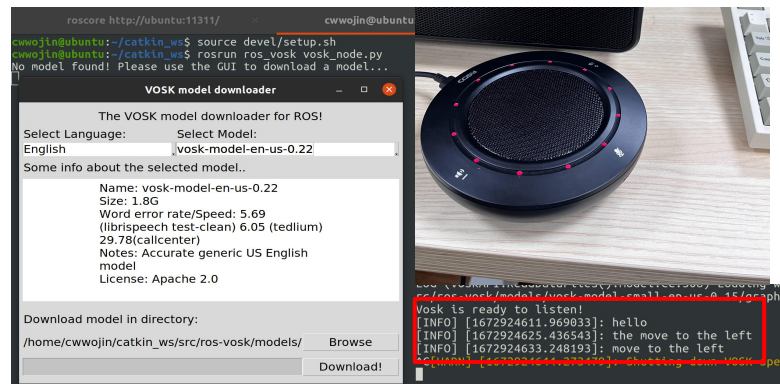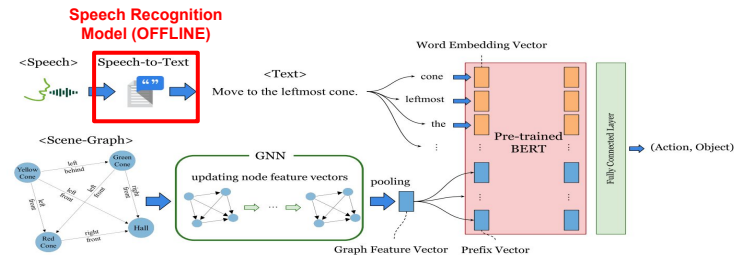
[Goal]
- (Previously) Google-Cloud Speech2Text
- Use offline model for ASR of robot commands
- **Korean Speech Recognition**
- Implement & demonstrate on real robot

[This Week]
- Reading : Previous Works (Dohyun Kim)
- Study ROS Basics
- Vosk (Kaldi) : Lightweight, no Korean, ROS-package
- Nvidia NeMO : SOTA, no Korean, HuggingFace
- KoSpeech : Korean, SOTA, no pre-trained model
- Test ROS Vosk node : TTS, mic-input

[Next Week]
- Continue Studying ROS : Writing packages
- Further testing with Vosk
- KoSpeech
    - Dataset : KsponSpeech (1000+ hrs), or subset?
    - Training on GPU
    - Evaluation : WER, CER, etc.

Task / Week	1 (1/2 ~ 8)	2 (1/9 ~ 15)	3 (1/16 ~ 20)	4 (1/25 ~ 29)	5 (1/30 ~ 2/5)	6 (2/6 ~ 12)	7 (2/13 ~ 19)	8(2/20 ~ 26)
ROS-Vosk								
ROS Tutorial								
Dataset gathering								
KoSpeech Training								
ROS KoSpeech Package								
Integrate w/ SGGNet								
legged-robot demo								
Report								