

휴먼인터페이스 연구실



김남수 교수님

Website

- <http://hi.snu.ac.kr>

뉴미디어 통신연구소

- 132동 302호
- 302동 511-2호

현 구성원

- 박사과정 12명
- 석사과정 6명

연구분야

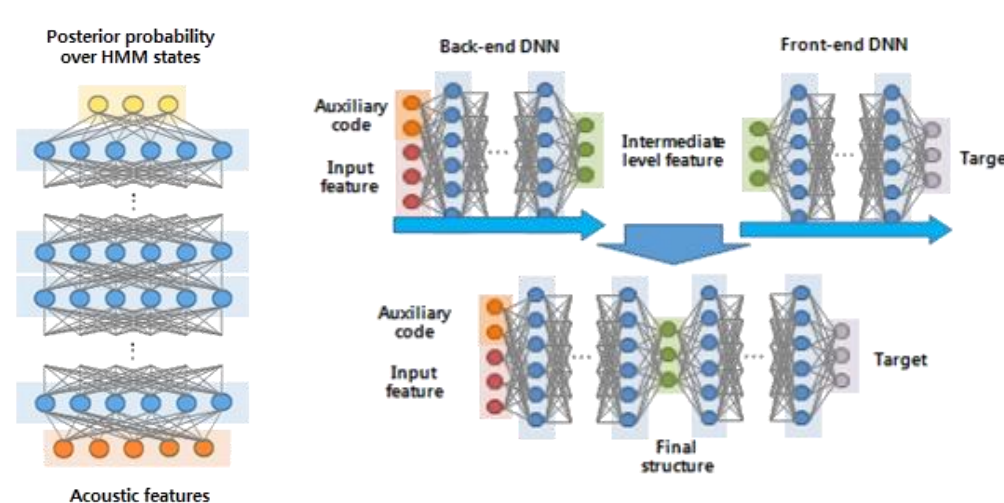
- Speech Signal Processing
- Audio Signal Processing
- AI & Machine Learning
- Natural Language Processing

연구 업적

- 국제 저널 논문 : 90편
- 국제 학회 논문 : 108편
- 국내 저널 논문 : 24편
- 국내 학회 논문 : 141편
- 특허 등록 : 71건

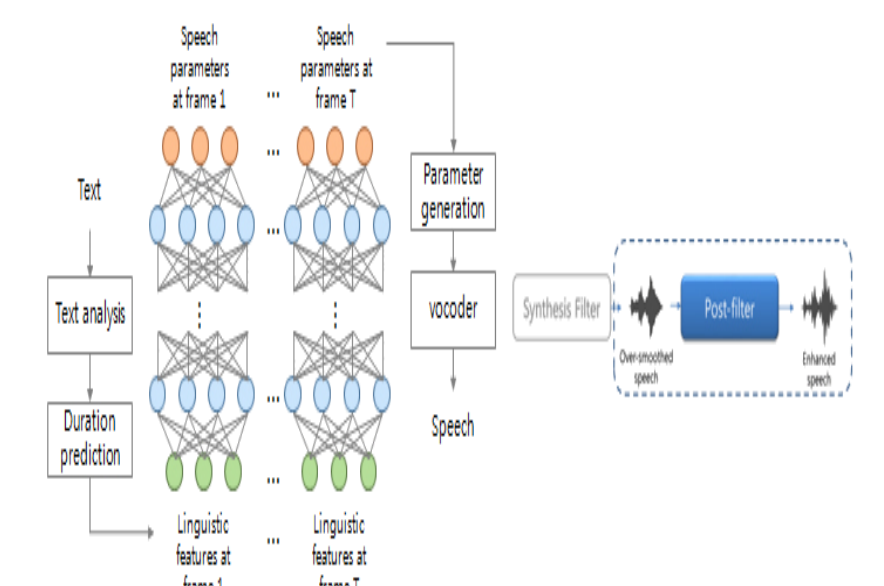
Speech Recognition

- Speech to text
- Acoustic modelling
- Feature compensation



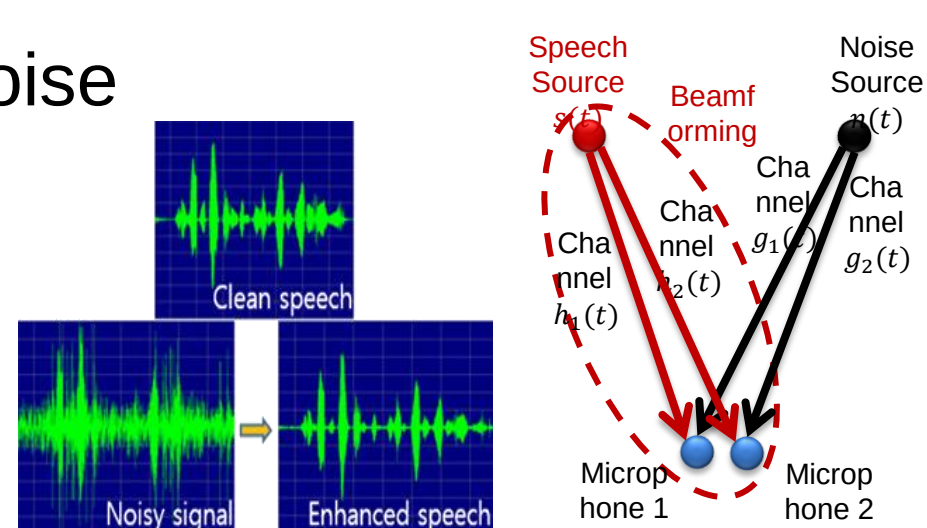
Speech Synthesis

- Text to speech
- High quality synthesis
- Speaker adaptive speech synthesis



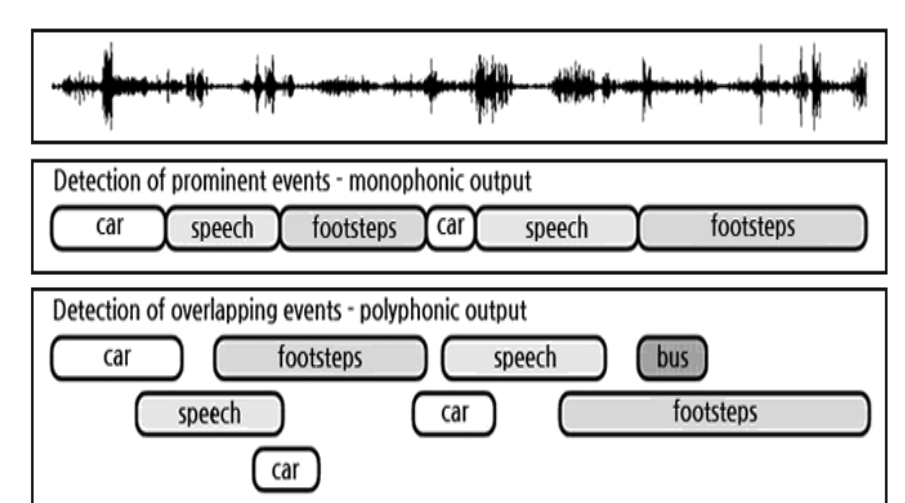
Speech Enhancement

- Single/Multi Channel Noise Reduction
- Echo cancelation / Dereverberation
- Speech intelligibility



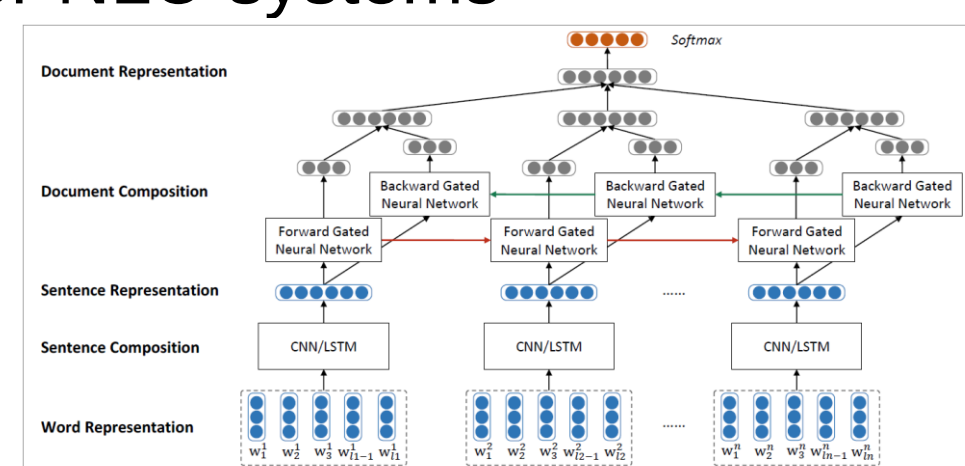
Audio Scene Recognition

- Audio event detection
- Environmental scene classification



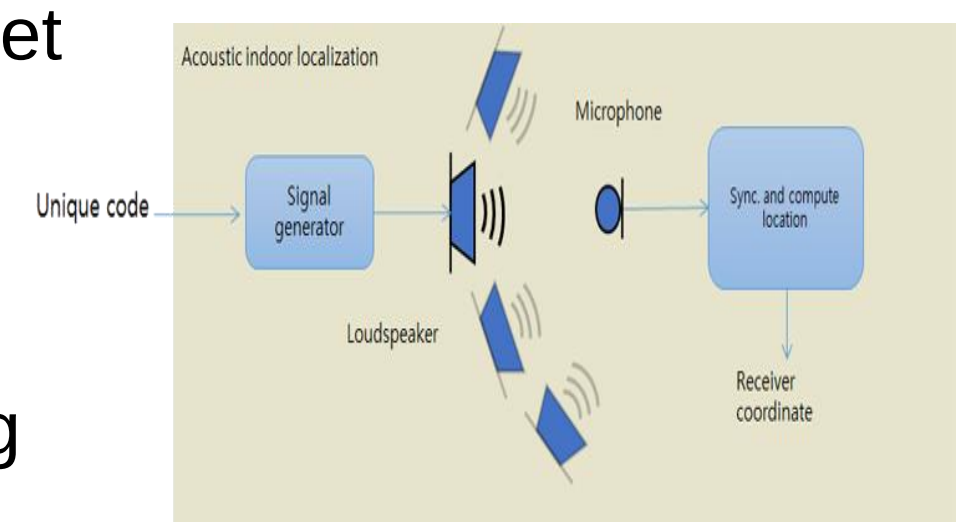
Natural Language Processing

- Intention Identification for NLU systems
- Speech-text Alignment for Disambiguation
- Non-task-oriented Dialog Management



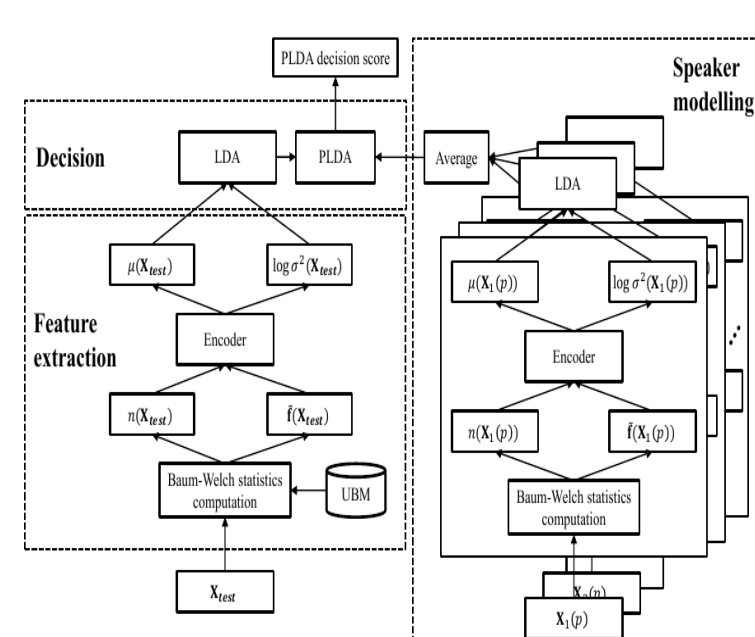
Acoustic Localization

- Find location of the target source
- Acoustic source localization/tracking
- Indoor localization using acoustic signal



Speaker Recognition

- Identify the speaker of the given speech
- Speaker verification/identification
- Forensic speaker recognition



Audio Source Separation

- Separate the target source from mixture sources
- Single channel source separation
- Multi channel source separation

