語音暨機器智能研究室

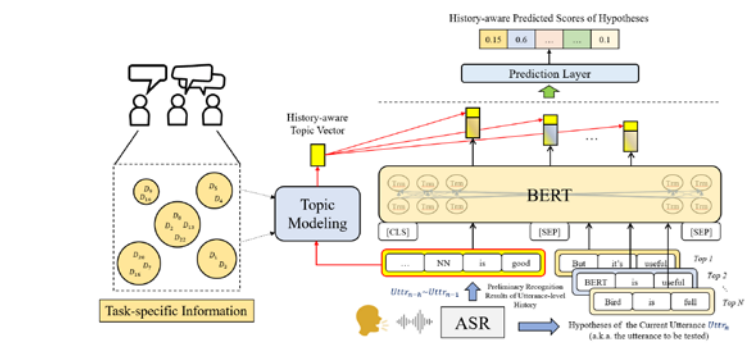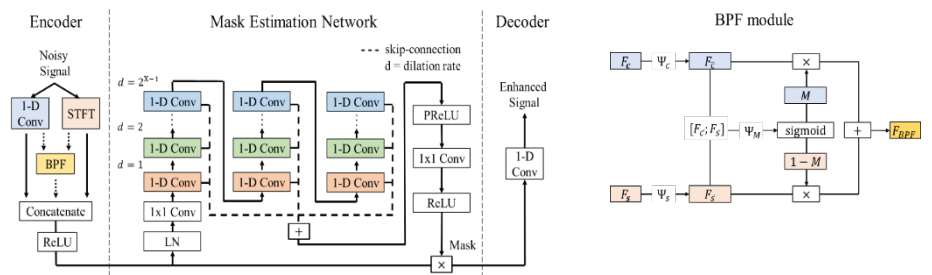# Speech and Machine Intelligence Laboratory

研究領域

- 語音辨識與合成
  Speech Recognition and Synthesis
  - Acoustic and Language Modeling
  - End-to-end ASR and TTS
  - Speech Enhancement and Robustness

- 自然語言處理
  Natural Language Processing
  - Speech and Text Summarization
  - Speech and Text Retrieval
  - Spoken Dialogue and Question-Answering Systems

- 電腦輔助語言學習
  Computer-Assisted Language Learning
  - Computer-assisted Pronunciation Learning (CAPT)/Proficiency Evaluation
  - Readability Assessment

- 音訊和音樂處理
  Audio and Music Processing
  - Automatic Music Transcription
  - Automatic Chord Recognition

- 機器學習
  Machine Learning
  - Multivariate Data Analysis
  - Surface & Deep Learning
  - Explainable Artificial Intelligence (XAI)

Contextualized Language Modeling for Conversational ASR

Cross-Domain Temporal Convolutional Network for Speech Enhancement

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speech recognition and natural language processing, machine Learning

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Publications

- Y.-T. Wu, B. Chen, L. Su, "Multi-instrument automatic music transcription with self-attention-based instance segmentation," IEEE/ACM TASLP, 28, 2020
- S.-H. Liu, K.-Y. Chen, B. Chen, "Enhanced language modeling with proximity and sentence relatedness information for extractive broadcast news summarization," ACM TALLIP, 19(3), 2020
- H.-C. Tseng, B. Chen, T.-H. Chang, Y.-T. Sung, "Integrating LSA-based hierarchical conceptual space and machine learning methods for leveling the readability of domain specific texts," Natural Language Engineering, 25(3), 2019