

XIE CHEN

✉ chenxie95@sjtu.edu.cn · 🌐 github · 🏠 homepage · 🎓 scholar

👤 CURRENT EMPLOYMENT

Shanghai Jiao Tong University (SJTU), Shanghai, China 2021.10 – Present
Associate Professor in the School of Computer Science

🏢 RESEARCH INTEREST

Speech Signal Processing, Speech Recognition, Speech Synthesis, Natural Language Processing, Machine Learning

🎓 EDUCATION

Cambridge University, Cambridge, UK 2012 – 2016
PhD in Information Engineering

Tsinghua University, Beijing, China 2009 – 2012
Master in Electronics Engineering (EE)

Xiamen University, Xiamen, China 2005 – 2009
Bachelor in Electronics Engineering (EE)

👥 WORK EXPERIENCE

Microsoft Research Seattle, America 2018 – 2021
Senior Researcher, Principal Researcher

Cambridge University Cambridge, UK 2016 – 2017
Research Associate

Microsoft Research Asia Beijing, China 2011 – 2012
Research Intern

🔧 ACADEMIC SERVICE

Reviewer / Meta-Reviewer / Area Chair Ongoing
INTERSPEECH, ICASSP, ASRU, SLT, ACL, TASLP, TACL

LAC – Technical Program Chairs 2025
ICASSP 2025 Satellite Event, Suzhou, China

Technical Committee Member 2024 – 2027
IEEE Speech and Language Processing Technical Committee (SLTC)

Invited Speaker Chairs 2024
IEEE SLT, Macau, China

Technical Program Chairs 2023, 2024
National Conference on Human-Machine Speech Communication (NCMMSC)

HONORS AND AWARDS

Best student paper shortlist, INTERSPEECH	2023
Cambridge oversea trusts scholarship	2012 – 2016
Toshiba student fellowship	2012 – 2016
Travel grants for INTERSPEECH, ICASSP	2015, 2016
National scholarship (1/82)	2008

PROGRAMMING SKILL

- Experienced in Linux programming with C/C++, Python, and Bash
- Experienced in speech recognition toolkit (Kaldi, ESPnet, HTK) and deep learning toolkit (PyTorch, Fairseq)

LANGUAGE SKILL

- Mandarin (native)
- English (fluent)

TEACHING

CS1501 Programming: Principles and Practice Using C++	Fall of 2023, 2024, 2025
AI3611 Practice in Artificial Intelligence	Fall of 2023, 2024, 2025

PUBLICATIONS

Articles in Refereed Journals:

1. Zheng Liang, Ziyang Ma, Chenpeng Du, Kai Yu, **Xie Chen**. "E3 TTS: End-to-End Text-Based Speech Editing TTS System and Its Applications". IEEE/ACM TASLP, 2024
2. Jinpeng Li, **Xie Chen**, Weiqiang Zhang, Exploring Generation of Pronunciation Lexicon for Low-Resource Language Automatic Speech Recognition Based on Generic Phone Recognizer(2024), Journal of Shanghai Jiao Tong University.
3. Xun Gong, Yu Wu, Jinyu Li, Shujie Liu, Rui Zhao, **Xie Chen**, Yanmin Qian (2024), "Advanced long-content speech recognition with factorized neural transducer", IEEE/ACM Transactions on Audio, Speech and Language Processing.
4. Chenpeng Du, Yiwei Guo, **Xie Chen**, Kai Yu (2023), "Speaker Adaptive Text-to-Speech with Timbre-Normalized Vector-Quantized Feature", IEEE/ACM Transactions on Audio, Speech and Language Processing.
5. **X. Chen**, X. Liu, Y. Wang, A. Ragni, M. Gales (2019). "Exploiting Future Word Contexts in Neural Network Language Model", IEEE/ACM Transactions on Audio, Speech and Language Processing.
6. **X. Chen**, X. Liu, Y. Wang, M. J. F. Gales and P. C. Woodland (2016). "Efficient Training and Evaluation of Recurrent Neural Network Language Models for Speech Recognition", In IEEE/ACM Transactions on Audio, Speech and Language Processing.
7. X. Liu, **X. Chen**, Y. Wang, M. J. F. Gales and P. C. Woodland (2016). "Two Efficient Lattice Rescoring Methods Using Recurrent Neural Network Language Models." In IEEE/ACM Transactions on Audio, Speech and Language Processing.
8. J. Liu, **X. Chen**, Y. Shan and Y. Shi (2012). "Construction of a Compact Dynamic Decoder Network for Large Vocabulary Continuous Speech Recognition." In Tsinghua Journal of Chinese Studies.

Peer-Reviewed Papers in Conference Proceedings:

1. Hanglei Zhang, Yiwei Guo, Zhihan Li, Xiang Hao, **Xie Chen**, Kai Yu. "Unlocking Temporal Flexibility: Neural Speech Codec with Variable Frame Rate". In Proc. INTERSPEECH, 2025

2. Yiwei Guo, Zhihan Li, Chenpeng Du, Hankun Wang, **Xie Chen**, Kai Yu. "LSCodec: Low-Bitrate and Speaker-Decoupled Discrete Speech Codec". In Proc. INTERSPEECH, 2025
3. Qixi Zheng, Yushen Chen, Zhikang Niu, Ziyang Ma, Xiaofei Wang, Kai Yu, **Xie Chen**. "Accelerating Flow-Matching-Based Text-to-Speech via Empirically Pruned Step Sampling". In Proc. INTERSPEECH, 2025
4. Mingyu Cui, Yifan Yang, Jiajun Deng, Jiawen Kang, Shujie Hu, Tianzi Wang, Zhaoqing Li, Shiliang Zhang, **Xie Chen**, Xunying Liu. "Exploring SSL Discrete Speech Features for Zipformer-based Contextual ASR". In Proc. INTERSPEECH, 2025
5. Jeongsoo Choi, Zhikang Niu, Ji-Hoon Kim, Chunhui Wang, Joon Son Chung, **Xie Chen**. "Accelerating Diffusion-based Text-to-Speech Model Training with Dual Modality Alignment". In Proc. INTERSPEECH, 2025
6. Jianheng Zhuo, Yifan Yang, Yiwen Shao, Yong Xu, Dong Yu, Kai Yu, **Xie Chen**. "VietASR: Achieving Industry-level Vietnamese ASR with 50-hour labeled data and Large-Scale Speech Pretraining". In Proc. INTERSPEECH, 2025
7. Yushen CHEN, Zhikang Niu, Ziyang Ma, Keqi Deng, Chunhui Wang, JianZhao, Kai Yu, **Xie Chen**. "F5-TTS: A Fairytaler that Fakes Fluent and Faithful Speech with Flow Matching". In Proc. ACL, 2025
8. Yifan Yang, Zhesu Song, Jianheng Zhuo, Mingyu Cui, Jinpeng Li, Bo Yang, Yexing Du, Ziyang Ma, Xunying Liu, Ziyuan Wang, Ke Li, Shuai Fan, Kai Yu, Wei-Qiang Zhang, Guoguo Chen, **Xie Chen**. "GigaSpeech 2: An Evolving, Large-Scale and Multi-domain ASR Corpus for Low-Resource Languages with Automated Crawling, Transcription and Refinement". In Proc. ACL, 2025
9. Yexing Du, Youcheng Pan, Ziyang Ma, Bo Yang, Yifan Yang, Keqi Deng, **Xie Chen**, Yang Xiang, Ming Liu, Bing Qin. "Making LLMs Better Many-to-Many Speech-to-Text Translators with Curriculum Learning". In Proc. ACL, 2025
10. Keqi Deng, Wenxi Chen, **Xie Chen**, Phil Woodland. "SimulS2S-LLM: Unlocking Simultaneous Inference of Speech LLMs for Speech-to-Speech Translation". In Proc. ACL, 2025
11. Ziyang Ma, Xiquan Li, Yakun Song, Wenxi Chen, Chenpeng Du, Jian Wu, Yuanzhe Chen, Zhuo Chen, Yuping Wang, Yuxuan Wang, **Xie Chen**. "Towards Reliable Large Audio Language Model". In Findings of ACL, 2025
12. Wenxi Chen, Ziyang Ma, Ruiqi Yan, Yuzhe Liang, Xiquan Li, Ruiyang Xu, Zhikang Niu, Yanqiao Zhu, Yifan Yang, Zhanxun Liu, Kai Yu, Yuxuan Hu, Jinyu Li, Yan Lu, Shujie LIU, **Xie Chen**. "SLAM-Omni: Timbre-Controllable Voice Interaction System with Single-Stage Training". In Findings of ACL, 2025
13. Tianrui Wang, Meng Ge, Zhikang Niu, Cheng Gong, Chunyu Qiang, Haoyu Wang, Zikang Huang, Ziyang Ma, Xiaobao Wang, **Xie Chen**, Longbiao Wang, Jianwu Dang. "A Progressive Generation Framework with Speech Pre-trained Model for Expressive Voice Conversion". In Proc. ICME, 2025
14. Yifan Yang, Jianheng Zhuo, Zengrui Jin, Ziyang Ma, Xiaoyu Yang, Zengwei Yao, Liyong Guo, Wei Kang, Fangjun Kuang, Long Lin, Daniel Povey, **Xie Chen**. "k2SSL: A Faster and Better Framework for Self-Supervised Speech Representation Learning". In Proc. ICME, 2025
15. Guanrou Yang, Fan Yu, Ziyang Ma, Zhihao Du, Zhifu Gao, Shiliang Zhang, **Xie Chen**. "Enhancing Low-Resource ASR through Versatile TTS: Bridging the Data Gap". In Proc. ICASSP, 2025
16. Xiquan Li, Wenxi Chen, Ziyang Ma, Xuenan Xu, Yuzhe Liang, Zhisheng Zheng, Qiuqiang Kong, **Xie Chen**. "DRCap: Decoding CLAP Latents with Retrieval-Augmented Generation for Zero-shot Audio Captioning". In Proc. ICASSP, 2025
17. Chenpeng Du, Yiwei Guo, Hankun Wang, Yifan Yang, Zhikang Niu, Shuai Wang, Hui Zhang, **Xie Chen**, Kai Yu. "VALL-T: Decoder-only generative transducer for robust and decoding-controllable text-to-speech". In Proc. ICASSP, 2025

18. Wenxi Chen, Ziyang Ma, Xiquan Li, Xuenan Xu, Yuzhe Liang, Zhisheng Zheng, Kai Yu, **Xie Chen**. "SLAM-AAC: Enhancing Audio Captioning with Paraphrasing Augmentation and CLAP-Refine through LLMs". In Proc. ICASSP, 2025
19. Ziyang Ma, Yakun Song, Chenpeng Du, Jian Cong, Zhuo Chen, Yuping Wang, Yuxuan Wang, **Xie Chen**. "Language Model Can Listen While Speaking". In Proc. AAAI, 2025
20. Yakun Song, Zhuo Chen, Xiaofei Wang, Ziyang Ma, **Xie Chen**. "ELLA-V: Stable Neural Codec Language Modeling with Alignment-Guided Sequence Reordering". In Proc. AAAI, 2025
21. Ziyang Ma, Guanrou Yang, Yifan Yang, Zhifu Gao, Jiaming Wang, Zhihao Du, Fan Yu, Qian Chen, Siqi Zheng, Shiliang Zhang, **Xie Chen**. "Speech Recognition Meets Large Language Model: Benchmarking, Models, and Exploration". In Proc. AAAI, 2025
22. Tao Liu, Ziyang Ma, Qi Chen, Feilong Chen, Shuai Fan, **Xie Chen**, Kai Yu. "VQTalker: Towards Multilingual Talking Avatars through Facial Motion Tokenization". In Proc. AAAI, 2025
23. Guanrou Yang, Ziyang Ma, Zhifu Gao, Shiliang Zhang, Xie Chen. "CTC-Assisted LLM-Based Contextual ASR". In Proc. SLT, 2024
24. Zhikang Niu, Sanyuan Chen, Long Zhou, Ziyang Ma, **Xie Chen**, Shujie Liu. "NDVQ: Robust neural audio codec with normal distribution-based vector quantization". In Proc. SLT, 2024
25. Hankun Wang, Chenpeng Du, Yiwei Guo, Shuai Wang, **Xie Chen**, Kai Yu. "Attention-Constrained Inference for Robust Decoder-Only Text-to-Speech". In Proc. SLT, 2024
26. Tao Liu, Feilong Chen, Shuai Fan, Chenpeng Du, Qi Chen, **Xie Chen**, Kai Yu. "AniTalker: Animate Vivid and Diverse Talking Faces through Identity-Decoupled Facial Motion Encoding". Proc. ACM MM, 2024
27. Bohan Li, Feiyu Shen, Yiwei Guo, Shuai Wang, **Xie Chen**, Kai Yu. "On the Effectiveness of Acoustic BPE in Decoder-Only TTS". Proc. INTERSPEECH, 2024
28. Yakun Song, Zhuo Chen, Xiaofei Wang, Ziyang Ma, Guanrou Yang, **Xie Chen**. "TacoLM: GaTed Attention Equipped Codec Language Model are Efficient Zero-Shot Text to Speech Synthesizers". Proc. INTERSPEECH, 2024
29. Anbai Jiang, Bing Han, Zhiqiang Lv, Yufeng Deng, Wei-Qiang Zhang, **Xie Chen**, Yanmin Qian, Jia Liu, Pingyi Fan. "AnoPatch: Towards Better Consistency in Machine Anomalous Sound Detection". Proc. INTERSPEECH, 2024
30. Xuankai Chang, Jiatong Shi, Jinchuan Tian, Yuning Wu, Yuxun Tang, Yihan Wu, Shinji Watanabe, Yossi Adi, **Xie Chen**, Qin Jin. "The Interspeech 2024 Challenge on Speech Processing Using Discrete Units". Proc. INTERSPEECH, 2024
31. Ziyang Ma, Mingjie Chen, Hezhao Zhang, Zhisheng Zheng, Wenxi Chen, Xiquan Li, Jiabin Ye, **Xie Chen**, Thomas Hain. "EmoBox: Multilingual Multi-corpus Speech Emotion Recognition Toolkit and Benchmark". Proc. INTERSPEECH, 2024
32. Guanrou Yang, Ziyang Ma, Fan Yu, Zhifu Gao, Shiliang Zhang, **Xie Chen**. "MaLa-ASR: Multimedia-Assisted LLM-Based ASR". Proc. INTERSPEECH, 2024
33. Yuzhe Liang, Wenxi Chen, Yihong Qiu, Xinhua Zheng, Boyuan Chen, Jia Liu, Wei-Qiang Zhang, Cheng Lu, **Xie Chen**, "Acoustic Scene Classification by the Self-learning of EAT". ICME Workshop, 2024
34. Zheshu Song, Jianheng Zhuo, Yifan Yang, Ziyang Ma, Shixiong Zhang, **Xie Chen**. "LoRA-Whisper: Parameter-Efficient and Extensible Multilingual ASR". Proc. INTERSPEECH, 2024
35. Peng Wang, Yifan Yang, Zheng Liang, Tian Tan, Shiliang Zhang, **Xie Chen**. "Incorporating Class-based Language Model for Named Entity Recognition in Factorized Neural Transducer". Proc. INTERSPEECH, 2024

36. Junzhe Liu, Jianwei Yu, **Xie Chen**. "Improved Factorized Neural Transducer Model For text-only Domain Adaptation". Proc. INTERSPEECH, 2024
37. Ziyang Ma, Zhisheng Zheng, Jiaxin Ye, Jinchao Li, Zhifu Gao, Shiliang Zhang, **Xie Chen**. "emotion2vec: Self-supervised pre-training for speech emotion representation". Findings of ACL, 2024
38. Junjie Li, Yiwei Guo, **Xie Chen**, Kai Yu. "SEF-VC: Speaker Embedding Free Zero-Shot Voice Conversion with Cross Attention". Proc. ICASSP, 2024
39. Sen Liu, Yiwei Guo, **Xie Chen**, Kai Yu. "StoryTTS: A Highly Expressive Text-to-Speech Dataset with Rich Textual Expressiveness Annotations". Proc. ICASSP, 2024
40. Feiyu Shen, Yiwei Guo, Chenpeng Du, **Xie Chen**, Kai Yu. "Acoustic BPE for speech generation with discrete tokens". Proc. ICASSP, 2024
41. Ziyang Ma, Wen Wu, Zhisheng Zheng, Yiwei Guo, Qian Chen, Shiliang Zhang, **Xie Chen**. "Leveraging speech PTM, text LLM, and emotional TTS for speech emotion recognition". Proc. ICASSP, 2024
42. Yifan Yang, Feiyu Shen, Chenpeng Du, Ziyang Ma, Kai Yu, Daniel Povey, **Xie Chen**. "Towards universal speech discrete tokens: A case study for ASR and TTS", Proc. ICASSP, 2024
43. Yiwei Guo, Chenpeng Du, Ziyang Ma, **Xie Chen**, Kai Yu. "Voiceflow: Efficient text-to-speech with rectified flow matching". Proc. ICASSP, 2024
44. Chenpeng Du, Yiwei Guo, Feiyu Shen, Zhijun Liu, Zheng Liang, **Xie Chen**, Shuai Wang, Hui Zhang, Kai Yu. "UniCATS: A unified context-aware text-to-speech framework with contextual VQ-diffusion and vocoding". Proc. AAAI, 2024
45. Zhisheng Zheng, Puyuan Peng, Ziyang Ma, **Xie Chen**, Eunsol Choi, David Harwath. "BAT: Learning to Reason about Spatial Sounds with Large Language Models". Proc. ICML, 2024
46. Wenxi Chen, Yuzhe Liang, Ziyang Ma, Zhisheng Zheng, **Xie Chen**. "EAT: Self-supervised pre-training with efficient audio transformer". Proc. IJCAI, 2024
47. Guanrou Yang, Ziyang Ma, Zhisheng Zheng, Yakun Song, Zhikang Niu, **Xie Chen**. "Fast-HuBERT: An Efficient Training Framework for Self-Supervised Speech Representation Learning". Proc. ASRU, 2023
48. Yujin Wang, Changli Tang, Ziyang Ma, Zhisheng Zheng, **Xie Chen**, Wei-Qiang Zhang. "Exploring Effective Distillation of Self-Supervised Speech Models for Automatic Speech Recognition". Proc. ASRU, 2023
49. Chenpeng Du, Qi Chen, Tianyu He, Xu Tan, **Xie Chen**, Kai Yu, Sheng Zhao, Jiang Bian. "DAE-Talker: High Fidelity Speech-Driven Talking Face Generation with Diffusion Autoencoder". Proc. ACM MM, 2023
50. Zheng Liang, Zheshu Song, Ziyang Ma, Chenpeng Du, Kai Yu, **Xie Chen**. "Improving Code-Switching and Name Entity Recognition in ASR with Speech Editing based Data Augmentation". Proc. INTERSPEECH, 2023
51. Ziyang Ma, Zhisheng Zheng, Changli Tang, Yujin Wang, **Xie Chen**. "MT4SSL: Boosting Self-Supervised Speech Representation Learning by Integrating Multiple Targets". Proc. INTERSPEECH, 2023
52. Yifan Yang, Xiaoyu Yang, Liyong Guo, Zengwei Yao, Wei Kang, Fangjun Kuang, Long Lin, **Xie Chen**, Daniel Povey. "Blank-regularized CTC for Frame Skipping in Neural Transducer". Proc. INTERSPEECH, 2023
53. Ziyang Ma, Zhisheng Zheng, Guanrou Yang, Yu Wang, Chao Zhang, **Xie Chen**. "Pushing the Limits of Unsupervised Unit Discovery for SSL Speech Representation". Proc. INTERSPEECH, 2023
54. Zhisheng Zheng, Ziyang Ma, Yu Wang, **Xie Chen**, "Unsupervised Active Learning: Optimizing Labeling Cost-Effectiveness for Automatic Speech Recognition". Proc. INTERSPEECH, 2023

55. Mingyu Cui, Jiawen Kang, Jiajun Deng, Xi Yin, Yutao Xie, **Xie Chen**, Xunying Liu. "Towards Effective and Compact Contextual Representation for Conformer Transducer Speech Recognition Systems". Proc. INTERSPEECH, 2023
56. Sen Liu, Yiwei Guo, Chengpeng Du, **Xie Chen**, Kai Yu. "DSE-TTS: Dual Speaker Embedding for Cross-Lingual Text-to-Speech". Proc. INTERSPEECH, 2023
57. Qi Chen, Ziyang Ma, Tao Liu, Xu Tan, Qu Lu, Kai Yu, **Xie Chen**. "Improving Few-Shot Learning for Talking Face System with TTS Data Augmentation". Proc. ICASSP, 2023.
58. **Xie Chen**, Ziyang Ma, Changli Tang, Yujin Wang, Zhisheng Zheng. "Front-End Adapter: Adapting Front-End Input of Speech Based Self-Supervised Learning for Speech Recognition". Proc. ICASSP, 2023.
59. Xun Gong, Yu Wu, Jinyu Li, Shujie Liu, Rui Zhao, **Xie Chen**, Yanmin Qian. "LongFNT: Long-Form Speech Recognition with Factorized Neural Transducer". Proc. ICASSP, 2023.
60. Yiwei Guo, Chenpeng Du, **Xie Chen**, Kai Yu. "Emodiff: Intensity Controllable Emotional Text-to-Speech with Soft-Label Guidance". Proc. ICASSP, 2023.
61. Xun Gong, Wei Wang, Hang Shao, **Xie Chen**, Yanmin Qian. "Factorized AED: Factorized Attention-Based Encoder-Decoder for Text-Only Domain Adaptive ASR". Proc. ICASSP, 2023.
62. Tianrui Wang, **Xie Chen**, Zhuo Chen, Shu Yu, Weibin Zhu. "An Adapter Based Multi-Label Pre-Training for Speech Separation and Enhancement". Proc. ICASSP, 2023.
63. Chenpeng Du, Yiwei Guo, **Xie Chen**, Kai Yu. "VQTTS: High-Fidelity Text-to-Speech Synthesis with Self-Supervised VQ Acoustic Feature". Proc. INTERSPEECH, 2022.
64. Zhong Meng, Yashesh Gaur, Naoyuki Kanda, Jinyu Li, **Xie Chen**, Yu Wu, Yifan Gong. "Internal language model adaptation with text-only data for end-to-end speech recognition". Proc. INTERSPEECH, 2022.
65. **Xie Chen**, Zhong Meng, S Parthasarathy, Jinyu Li. "Factorized neural transducer for efficient language model adaptation". Proc. ICASSP, 2022
66. Deepak Narayanan, Amar Phanishayee, Kaiyu Shi, **Xie Chen**, Matei Zaharia. "Memory-efficient pipeline-parallel DNN training". Proc. ICML, 2021
67. **Xie Chen**, Yu Wu, Zhenghao Wang, Shujie Liu, Jinyu Li. "Developing Real-time Streaming Transformer Transducer for Speech Recognition on Large-scale Dataset". Proc. ICASSP, 2021
68. Zhong Meng, Naoyuki Kanda, Yashesh Gaur, Sarangarajan Parthasarathy, Eric Sun, Liang Lu, **Xie Chen**, Jinyu Li, Yifan Gong. "Internal Language Model Training for Domain-Adaptive End-to-End Speech Recognition". Proc. ICASSP, 2021
69. Zhong Meng, Sarangarajan Parthasarathy, Eric Sun, Yashesh Gaur, Naoyuki Kanda, Liang Lu, **Xie Chen**, Rui Zhao, Jinyu Li, Yifan Gong. "Internal Language Model Estimation for Domain-Adaptive End-to-End Speech Recognition". Proc. IEEE SLT, 2020
70. Junhao Xu, **Xie Chen**, Shoukang Hu, Jianwei Yu, Xunying Liu, Helen Meng. "Low-bit Quantization of Recurrent Neural Network Language Models Using Alternating Direction Methods of Multipliers". In Proceedings of ICASSP, 2020
71. **Xie Chen**, Jun Zhang, Tasos Anastasakos, Allea Fil. "Investigation of Sampling Techniques for Maximum Entropy Language Modeling Training". Proc. of ICASSP, 2019
72. Max Lam, **Xie Chen**, Shoukang Hu, Jianwei Yu, Xunying Liu, Meng Helen. "Gaussian Process LSTM Recurrent Neural Network Language Models for Speech Recognition". Proc. of ICASSP, 2019
73. Jianwei Yu, Max Lam, **Xie Chen**, Shoukang Hu, Songxiang Liu, Xixin Wu, Xunying Liu, Meng Helen. "Recurrent Neural Network Language Models Training using Natural Gradient". Proc. of ICASSP, 2019

74. Oscar Chen, Anton Ragni, Mark Gales, **Xie Chen**. "Active Memory Networks for Language Modeling". Proc. of INTERSPEECH, 2018
75. Meng Zhang, **Xie Chen**, Ronan Cummins, Øistein E Andersen, Ted Briscoe. "The Effect of Adding Authorship Knowledge in Automated Text Scoring". Workshop of BEA in NAACL, 2018
76. Helen Meng Xunying Liu, Shansong Liu, Jinze Sha, Jianwei Yu, Zhiyuan Xu, **Xie Chen**. "Limited-memory BFGS Optimization of Recurrent Neural Network Language Models For Speech Recognition". Proc. of ICASSP, 2018
77. Yu Wang, **Xie Chen**, Mark Gales, Anton Ragni, Jeremy Wong(2018). "Phonetic and Graphemic Systems for Multi-Genre Broadcast Transcription". Proc. of ICASSP, 2018
78. Hainan Xu, Ke Li, Yiming Wang, Jian Wang, Shiyin Kang, **Xie Chen**, Daniel Povey, Sanjeev Khudanpur. "Neural Network Language Modeling with Letter-based Features and Importance Sampling". Proc. of ICASSP, 2018
79. **Xie Chen**, Xunying Liu, Anton Ragni, Yu Wang, Mark Gales. "Future Word Context in Neural Network Language Model". Proc. of ASRU, 2017
80. **Xie Chen**, Anton Ragni, Xunying Liu, Mark Gales. "Investigating Bidirectional Recurrent Neural Network Language Models for Speech Recognition". Proc. of INTERSPEECH, 2017
81. **Xie Chen**, Anton Ragni, Jay Vasilakes, Xunying Liu, Kate Knill, Mark Gales. "Recurrent Neural Network Language Models for Keyword Search". Proc. of ICASSP, 2017
82. Anton Ragni, Edgar Dakin, **Xie Chen**, Mark Gales and Kate Knill. "Multi-Language Neural Network Language Models". Proc. INTERSPEECH, 2016
83. **Xie Chen**, Xunying Liu, Yanmin Qian, Mark Gales, Phil Woodland. "CUED-RNNLM – An Open-Source Toolkit for Efficient Training and Evaluation of Recurrent Neural Network Language Models." Proc. ICASSP, 2016
84. **Xie Chen**, Xunying Liu, Mark Gales, Phil Woodland. "Investigation of back-off based interpolation between Recurrent Neural Network and N-Gram Language Models". Proc. ASRU, 2015
85. **Xie Chen**, Tian Tan, Xunying Liu, Pierre Lanchantin, Moquan Wan, Mark JF Gales, Philip C Woodland. "Recurrent Neural Network Language Model Adaptation for Multi-Genre Broadcast Speech Recognition". Proc. INTERSPEECH, 2015
86. **Xie Chen**, Xunying Liu, Mark Gales, Phil Woodland. "Improving the Training and Evaluation Efficiency of Recurrent Neural Network Language Models". Proc. ICASSP, 2015
87. **Xie Chen**, Xunying Liu, Mark Gales, Phil Woodland. "Recurrent Neural Network Language Model Training with Noise Contrastive Estimation for Speech Recognition". Proc. ICASSP, 2015
88. Xiuying Liu, **Xie Chen**, Mark Gales, Phil Woodland (2015). "Paraphrastic Recurrent Neural Network Language Models". Proc. ICASSP, 2015
89. Thomas Drugman, Yannis Stylianou, Langzhou Chen, **Xie Chen**, Mark Gales, "Robust Excitation-based Feature for Automatic Speech Recognition". Proc. ICASSP, 2015
90. **Xie Chen**, Mark Gales and Kate Knill et, al. "An Initial Investigation of Long-Term Adaptation for Meeting Transcription". Proc. INTERSPEECH, 2014
91. **Xie Chen**, Yongqiang Wang, Xiuying Liu, Mark Gales, Phil Woodland. "Efficient GPU-based Training of Recurrent Neural Network Language Models Using Spliced Sentence Bunch". Proc, INTERSPEECH, 2014
92. Xunying Liu, Yongqiang Wang, **Xie Chen**, Mark Gales, Phil Woodland. "Efficient Lattice Rescoring Using Recurrent Neural Network Language Models." Proc. ICASSP, 2014

93. Takuya Yoshioka, **Xixie Chen**, Mark Gales, "Impact of Single-Microphone Dereverberation on DNN-based Meeting Transcription Systems". Proc. ICASSP, 2014
94. **Xie Chen**, Adam Eversole, Gang Li, Dong Yu, Frank Seide. "Pipelined Back-Propagation for Context-Dependent Deep Neural Networks". Proc. INTERSPEECH, 2012
95. **Xie Chen**, Yuxiang Shan, Xin Zhang, Jia Liu. "An Efficient Layer-wised Beam Pruning Algorithm for Large Vocabulary Continuous Speech Recognition System". Proc. ICALIP, 2012
96. Frank Seide, Gang Li, **Xie Chen** and Dong Yu. "Feature Engineering in Context-Dependent Deep Neural Networks for Conversational Speech Transcription". Proc. ASRU, 2011
97. **Xie Chen**, Wei-Qiang Zhang, Jia Liu, X Bao. "An Improved Method for Voice Conversion based on Gaussian Mixture Model". Proc. ICCASM, 2010.