

## Publications

### Thesis

1. Kai Yu. *Adaptive Training for Large Vocabulary Continuous Speech Recognition*. PhD thesis, Cambridge University, Cambridge, U.K., 2006.
2. Kai Yu. *Study of Several Topics in Digital Image Processing and Analysis & Their Applications in Optical Coherence Tomography (OCT) System*. Master thesis, Tsinghua University, Beijing, China, 2002.

### Book Chapter

1. 俞凯等. 听觉信息处理研究前沿. 上海交通大学出版社 2021
2. 俞栋、邓力、俞凯等. 人工智能: 语音识别理解与实践. 电子工业出版社 2020
3. 俞凯等译. 强化学习 (第二版). 电子工业出版社 2019
4. 俞凯、吴科译. 人工智能中的深度结构学习. 机械工业出版社 2017
5. 俞凯等译. 解析深度学习: 语音识别实践. 电子工业出版社 2016
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### Journal

1. Xuenan Xu, Zeyu Xie, Mengyue Wu and Kai Yu. Beyond the Status Quo: A Contemporary Survey of Advances and Challenges in Audio Captioning. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 32, pp. 95-112, 2024
2. Ruisheng Cao, Lu Chen, Jieyu Li, Hanchong Zhang, Hongshen Xu, Wangyou Zhang and Kai Yu. A Heterogeneous Graph to Abstract Syntax Tree Framework for Text-to-SQL. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 45, no. 11, pp. 13796-13813, 2023
3. Wenbin Jiang and Kai Yu. Speech Enhancement With Integration of Neural Homomorphic Synthesis and Spectral Masking. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 31, pp. 1758-1770, 2023
4. Chenpeng Du, Yiwei Guo, Xie Chen and Kai Yu. Speaker Adaptive Text-to-Speech With Timbre-Normalized Vector-Quantized Feature. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 31, pp. 3446-3456, 2023
5. Jieyu Li, Zhi Chen, Lu Chen, Zichen Zhu, Hanqi Li, Ruisheng Cao, and Kai Yu. DIR: A Large-Scale Dialogue Rewrite Dataset for Cross-Domain Conversational Text-to-SQL. *Applied Sciences*, vol. 13(4), pp. 2262, 2023
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8. 刘奇, 马饶, 俞凯. 马尔可夫决策过程和先验控制向量在弱约束自然语言生成中的应用. *计算机学报*, Vol.45, No.2, pp. 289-301, 2022
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## Conference

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2. Danyang Zhang, Lu Chen, Situo Zhang, Hongshen Xu, Zihan Zhao and Kai Yu. Large Language Models Are Semi-Parametric Reinforcement Learning Agents. In *NeurIPS*, New Orleans, USA, 2023
3. 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. In *31st ACM International Conference on Multimedia (ACM-MM)*, Ottawa, Canada, 2023, 4281-4289
4. Guangpeng Li, Lu Chen and Kai Yu. "How ChatGPT is Robust for Spoken Language Understanding?" In *24th Annual Conference of the International Speech Communication Association (InterSpeech)*, Dublin, Ireland, 2023, 2163-2167
5. Pingyue Zhang, Mengyue Wu and Kai Yu. ReCLR: Reference-Enhanced Contrastive Learning of Audio Representation for Depression Detection. In *24th Annual Conference of the International Speech Communication Association (InterSpeech)*, Dublin, Ireland, 2023, 2998-3002
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8. Zeyu Xie, Xuenan Xu, Mengyue Wu and Kai Yu. Enhance Temporal Relations in Audio Captioning with Sound Event Detection. In *24th Annual Conference of the International Speech Communication Association (InterSpeech)*, Dublin, Ireland, 2023, 4179-4183
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