Xinhao Mei

Curriculum Vitae

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Education

2021–present **PhD in Vision, Speech and Signal Processing**, *University of Surrey*, Guildford, UK.
Supervisor: Prof. Wenwu Wang

2019–2020 : **Master of Science in Computer Vision, Machine Learning and Robotics**, *University of Surrey*, Guildford, UK.
Overall GPA: 70.0/100.0 (Distinction)

2015–2019 : **Bachelor of Engineering in Software Engineering**, *Southwest Petroleum University*, Chengdu, China.
Overall GPA: 82.0/100.0

Publications

2021 **Xinhao Mei**, Xubo Liu, Jianyuan Sun, Mark D Plumbley, and Wenwu Wang. Diverse Audio Captioning via Adversarial Training, *arXiv preprint arXiv:2110.06691*, 2021.

2021 **Xinhao Mei**, Xubo Liu, Qiushi Huang, Mark D Plumbley, and Wenwu Wang. Audio Captioning Transformer. In *Proceedings of the Detection and Classification of Acoustic Scenes and Events Workshop*, 2021.

2021 **Xinhao Mei**, Qiushi Huang, Xubo Liu, Gengyun Chen, Jingqian Wu, Yusong Wu, et al. An Encoder-Decoder based Audio Captioning System with Transfer and Reinforcement Learning for DCASE Challenge 2021 Task 6. Technical report, 2021.

2021 **Xinhao Mei**, Qiushi Huang, Xubo Liu, Gengyun Chen, Jingqian Wu, Yusong Wu, et al. An Encoder-Decoder based Audio Captioning System with Transfer and Reinforcement Learning. In *Proceedings of the Detection and Classification of Acoustic Scenes and Events Workshop*, 2021.

2021 Xubo Liu, Qiushi Huang, **Xinhao Mei**, Tom Ko, H Lilian Tang, Mark D Plumbley, and Wenwu Wang. CL4AC: A Contrastive Loss for Audio Captioning. In *Proceedings of the Detection and Classification of Acoustic Scenes and Events Workshop*, 2021.

Research Experience

2021–present ***Automated Audio Captioning***.
Developing novel algorithms and models to improve the performance of audio captioning system. Proposed models achieved state-of-the-art performance

2019–2020 ***Deep Learning for Large-Scale Speaker Verification in the Wild***.
Developed a speaker verification system in noisy and uncontrolled environment using deep learning techniques. Analyzed traditional and state-of-the-art approaches in speaker recognition and verification,and combined these methods in the system to improve the performance

Honors

2021 Achieved ***3rd*** place in ***Task 6 of DCASE Challenge 2021*** (best system without using ensemble technique).

2019 Surrey International Masters Scholarship.

Teaching Assistantship

Fall, 2021 : **EEE2036: Laboratories, Design & Professional Studies III**, University of Surrey.

Fall, 2021 : **EEE1033: Computer and Digital Logic**, University of Surrey.

Skills

Programming Python, PyTorch, Matlab, Numpy

Typesetting Markdown, LaTeX

Languages Chinese(native), English(fluent)