Xinhao Mei

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Education

Jan 2021 – Ongoing	**University of Surrey, Guildford, UK** *PhD in Vision, Speech and Signal Processing* *Supervisor: Prof. Wenwu Wang*
Sep 2019 – Sep 2020	**University of Surrey, Guildford, UK** *Master of Science in Computer Vision, Machine Learning and Robotics* *Overall GPA: 70.0/100.0 (Distinction)*
Sep 2015 – Jun 2019	**Southwest Petroleum University, Chengdu, China** *Bachelor of Engineering in Software Engineering* *Overall GPA: 82.0/100.0*

Project Experience

2021 - Ongoing	**Automated Audio Captioning** • Developed an automated audio captioning system and attended the DCASE 2021 challenge, Task 6 • Improved the state-of-the-art performance of audio captioning system in many aspects
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

Publications

2021

1. **Mei, X.**, Liu, X., Huang, Q., Plumbley, M. D. & Wang, W. Audio Captioning Transformer. *arXiv preprint arXiv:2107.09817* (2021).

2. **Mei, X.** *et al.* An Encoder-Decoder Based Audio Captioning System With Transfer and Reinforcement Learning. *arXiv preprint arXiv:2108.02752* (2021).

3. **Mei, X.** *et al. An encoder-decoder based audio captioning system with transfer and reinforcement learning for DCASE challenge 2021 task 6* tech. rep. (2021).

Honors

2021	Achieved 3rd place in Task 6 of DCASE Challenge 2021 (best system without using ensemble technique)
2019	Surrey International Masters Scholarship

Skills

Programming	Python, Matlab
Typesetting Document	Markdown, Latex
Machine Learning	Pytorch, Numpy