Chien-Feng Liao

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Github: https://github.com/jerrygood0703
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Education

2017 - present

Master of Data Science,

National Taiwan University

2011 - 2015

Bachelor of Bio-Industrial Mechatronics Engineering,

National Taiwan University

Experience

Research intern

National Institute of Information and Communications Technology (NICT), Japan — *2018/7~ 2018/9*

- Speech enhancement using generative adversarial networks and Vector Quantized Variational Autoencoder

Research assistant

Research Center for Information Technology Innovation, Academia Sinica, Taiwan — *2016/8~ present*

- Speech enhancement
- Generative adversarial networks
- Voice conversion
- Domain adaptation

Software engineer	*KINPO ELECTRONICS INC., Taiwan* • Automobile robot collision avoidance system • Real-time pedestrian detection system • Real-time gender estimation system • Face verification system	*2015/9~ 2016/8*

Skill

- Machine learning, Deep learning
- Speech signal processing
- Computer vision

Language

- TOEIC 975 / 990

Programming

- Python, C/C++, Matlab
- Frameworks: TensorFlow, Keras, OpenCV, dlib
- Enviroment: Linux

Publications

1. Fu, S. W., **Liao, C. F.**, Tsao, Y., & Lin, S. D. (2019). MetricGAN: Generative Adversarial Networks based Black-box Metric Scores Optimization for Speech Enhancement. *ICML 2019.*
2. Fu, S. W., **Liao, C. F.**, & Tsao, Y. (2019). Learning with Learned Loss Function: Speech Enhancement with Quality-Net to Improve Perceptual Evaluation of Speech Quality. *arXiv preprint arXiv:1905.01898*.
3. **Liao, C. F.**, Tsao, Y., Lu, X., & Kawai, H. (2019). Incorporating Symbolic Sequential Modeling for Speech Enhancement. *Interspeech 2019.*
4. **Liao, C. F.**, Tsao, Y., Lee, H. Y., & Wang, H. M. (2018). Noise adaptive speech enhancement using domain adversarial training. *Interspeech 2019.*
5. Kao, Y. Y., Hsu, H. P., **Liao, C. F.**, Tsao, Y., Yang, H. C., Li, J. L., ... & Wang, H. M. (2018, September). Automatic Detection of Speech Under Cold Using Discriminative Autoencoders and Strength Modeling with Multiple Sub-Dictionary Generation. In 2018 16th International Workshop on Acoustic Signal Enhancement (IWAENC) (pp. 416-420). IEEE.