Chien-Feng Liao

Email: jerrygood0703@gmail.com   **Github: https://github.com/jerrygood0703**

Phone: +886-911611729

Education

- Master of Data Science, National Taiwan University   *Sep 2017 to Aug 2019*
- Bachelor of Bio-Industrial Mechatronics Engineering, National Taiwan University   *Sep 2011 to Jun 2015*

Experience

- *Intern* at Montreal Institute for Learning Algorithms (Mila), Canada   *May 2020 to present*
- *Research intern* at National Institute of Information and Communications Technology (NICT), Japan   *Jul 2018 to Sep 2018*
- *Research assistant* at Research Center for Information Technology Innovation, Academia Sinica, Taiwan   *Aug 2016 to present*
- *Computer vision engineer* at KINPO ELECTRONICS INC., Taiwan   *Sep 2015 to Aug 2016*

Skill

- Deep learning, machine learning
- Speech signal processing, speech enhancement
- GAN, domain adaptation
- Face detection/verification, emotion recognition
- Python, C++, Matlab
- TOEIC 975/900

Honors & Awards

- Student Travel Grants, Interspeech 2019
- 1st place (200K TWD price), Merry Electroacoustics Thesis Award 2019
- 1st place, ACLCLP Master Thesis Award 2019
- Top 1 average GPA in Data Science Degree Program for the first two semesters

Publications

1. **Liao, C. F.**, Tsao, Y., Lu, X., & Kawai, H. "Incorporating Symbolic Sequential Modeling for Speech Enhancement". *Interspeech 2019*.
2. **Liao, C. F.**, Tsao, Y., Lee, H. Y., & Wang, H. M. "Noise adaptive speech enhancement using domain adversarial training". *Interspeech 2019*.
3. Fu, S. W., **Liao, C. F.**, Tsao, Y., & Lin, S. D. "MetricGAN: Generative Adversarial Networks based Black-box Metric Scores Optimization for Speech Enhancement". *ICML 2019*.
4. Fu, S. W., **Liao, C. F.**, & Tsao, Y. "Learning with Learned Loss Function: Speech Enhancement with Quality-Net to Improve Perceptual Evaluation of Speech Quality". in IEEE Signal Processing Letters, vol. 27, pp. 26-30, 2020
5. Lu, Y. J., **Liao, C. F.**, Lu, X., Hung, J. W., & Tsao, Y. "Incorporating Broad Phonetic Information for Speech Enhancement". To be appeared in Interspeech 2020
6. Kao, Y. Y., Hsu, H. P., **Liao, C. F.**, Tsao, Y., ... & Wang, H. M. "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.