Cheng-Hao Tu

Website: andytu28.github.io
Email: andytu455176@gmail.com
GitHub: github.com/andytu28

Education

National Taiwan University
M.Sc. in Department of Computer Science & Information Engineering 2015–2018

- GPA: 3.97/4.30, Rank: 60/152
- Master Thesis: "Personalized Facial Action Unit Detection Using Multi-Task Network Cascades"

National Taiwan University
B.Sc. in Department of Computer Science & Information Engineering 2011–2015

- GPA: 4.02/4.30, Rank: 7/111

Experience

Institute of Information Science, Academia Sinica
Research Assistant Apr. 2019 –Now

- Continual learning
- Image retrieval, hash code learning
- Network pruning

NTU IoX Center, National Taiwan University
System Administrator July 2016 –Feb. 2017

- Maintaining IOX center website, and personal computer troubleshooting

Institute of Information Science, Academia Sinica
Summer Internship July 2016 –Aug. 2016

- Local feature learning

NTU RoboPAL Team, National Taiwan University
Undergraduate Student Feb. 2014 –Jan. 2015

- Our team makes the top 8 in Standard Platform League of RoboCup 2014 at João Pessoa, Brazil.

Publications

[1] **C.-H. Tu**, J.-H. Lee, Y.-M. Chan, and C.-S. Chen, "Pruning depthwise separable convolutions for mobilenet compression", in *IEEE International Joint Conference on Neural Networks (IJCNN)*, 2020, pp. 1–8.

[2] S. C.-Y. Hung, **C.-H. Tu**, C.-E. Wu, C.-H. Chen, Y.-M. Chan, and C.-S. Chen, "Compacting, picking and growing for unforgetting continual learning", in *Advances in Neural Information Processing Systems (NeurIPS)*, 2019, pp. 13 669–13 679.

[3] **C.-H. Tu**, C.-Y. Yang, and J. Y.-j. Hsu, "Idennet: Identity-aware facial action unit detection", in *IEEE International Conference on Automatic Face & Gesture Recognition (FG)*, 2019, pp. 1–8.

[4] H.-F. Yang, **C.-H. Tu**, and C.-S. Chen, "Adaptive labeling for deep learning to hash", in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, 2019.

[5] H.-F. Yang, **C.-H. Tu**, and C.-S. Chen, "Adaptive labeling for hash code learning via neural networks", in *IEEE International Conference on Image Processing (ICIP)*, 2019, pp. 2244–2248.

[6] H.-F. Yang, T.-Y. Chen, **C.-H. Tu**, and C.-S. Chen, "Equivalent scanning network of unpadded cnns", *IEEE Signal Processing Letters*, vol. 25, no. 10, pp. 1590–1594, 2018.

Awards

- The Presidential Award (5%), National Taiwan University — Fall 2013
- The Presidential Award (5%), National Taiwan University — Fall 2012

Teaching

- **Teaching Assistant** at National Taiwan University — Fall 2017
  Course: Introduction to Digital Signal Processing