

Hao Cheng

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EDUCATION

- M.A. Communication and Information Systems, Chinese Academy of Sciences, 2019
B.S. Electronics Science and Technology, JiLin University, 2016

RESEARCH AREAS

Understanding neural networks. e.g., information bottleneck theory

Efficient training algorithm. e.g., network pruning, distillation, self-paced learning

I am especially interested in the cross field between deep learning and information theory.

PUBLICATIONS

Conference Paper

- 2018 **Hao Cheng**, Dongze Lian, Shenghua Gao, Yanlin Geng. “Evaluating Capability of Deep Neural Networks for Image Classification via Information Plane” **ECCV2018**
- 2019 **Hao Cheng***, Dongze Lian*, Bowen Deng, Shenghua Gao, Tao Tan, Yanlin Geng. “Local to Global Learning: Gradually Adding Classes for Training Deep Neural Networks” **CVPR2019**
- 2020 Fanxu Meng*, **Hao Cheng***, Ke Li, Zhixin Xu, Rongrong Ji, Xing Sun, Guangming Lu. “Filter Grafting for Deep Neural Networks” **CVPR2020**
- 2020 Fengxiang Yang, Ke Li, Zhun Zhong, Xing Sun, **Hao Cheng**, Xiaowei Guo, Feiyue Huang, Rongrong Ji, Shaozi Li. “Asymmetric Co-Teaching for Unsupervised Cross-Domain Person Re-Identification” **AAAI2020**

Journal Paper

- 2019 **Hao Cheng**, Dongze Lian, Shenghua Gao, Yanlin Geng. “Utilizing Information Bottleneck to Evaluate Capability of Deep Neural Networks for Image Classification” **entropy**

Paper under review

- 2020 **Hao Cheng**, Fanxu Meng, Ke Li, Huixiang Luo, Xing Sun, Xiaowei Guo, Feiyue Huang, Guangming Lu. “DGD: Densifying the Knowledge of Neural Networks with Filter Grafting and Knowledge Distillation” **under review**

Updated February 2020