Curriculum Vitae

Yuhui Xu
Shanghai Jiao Tong University
Phone: (+86) 18217193359
Email: yuhuixu@sjtu.edu.cn
Homepage: https://yuhuixu1993.github.io

Education

- **Shanghai Jiao Tong University**   Shanghai, China
  Department of Electronic Information and Electrical Engineering, Ph.D.   *2016–Now*
    - Advisor: Prof. Hongkai Xiong
    - Research areas: Deep Neural Network Compression, Computer Vision

- **Southeast University**   Nanjing, China
  Chien-Shiung Wu College, B.S. in Information and Communication Engineering   *2012–2016*

Research:

My research is mainly focus on the compression and acceleration of deep neural networks. We propose Single Level Quantization (SLQ) that can compress deep neural networks by an order of magnitude without losing or even boosting the accuracy. Further, Dynamic Network Quantization (DNQ) is proposed to determine the quantization bit-width of each layer by reinforcement learning. We design a low-rank training scheme Trained Rank Pruning (TRP) to boost the current low-rank decomposition methods.

Experience

- **Qualcomm Greater China University Research (UR) Cooperation Project**   *April, 2017 - Now*
  Deep Neural Network Compression

- **Research Engineer Intern at Tencent, Inc**   *July - Sept, 2018*
  Research on Compression and Acceleration on Large-scale Online Advertising

List of Articles:

1. Y. Xu, Y. Wang, A. Zhou, W. Lin, H. Xiong
   Deep Neural Network Compression with Single and Multiple Level Quantization. *AAAI 18*.

2. Y. Xu, Y. Li, S. Zhang, W. Wen, B. Wang, Y. Qi, Y. Chen, W. Lin, H. Xiong
   Trained Rank Pruning for Efficient Deep Neural Networks. *Arxiv Preprint*.

3. Y. Xu, S. Zhang, Y. Qi, J. Guo, W. Lin, H. Xiong
   DNQ: Dynamic Network Quantization. *Arxiv Preprint*.

Awards

Cyrus Tang Scholarship Cyrus Tang Foundation   2012–2016
Meritorious Winner in The Interdisciplinary Contest in Modeling (ICM)   2015
First Prize in Jiangsu Electronic Design Contest   2014

Paper Reviews

ACM MM 2018
ICME 2018,2019
IEEE Transactions on Intelligent Transportation Systems