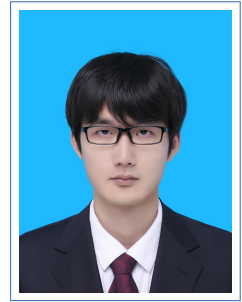


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Education

- | | |
|--|-----------------------|
| The University of Tokyo, Tokyo, Japan | Sep. 2019 - present |
| Ph.D candidate, Supervisors: Kiyoharu Aizawa | |
| Peking University, Beijing, China | Sep. 2016 - Jul. 2019 |
| M.S. in Computer Science, Supervisors: Zhouchen Lin and Chao Zhang | |
| Beijing University of Posts and Telecommunications, Beijing, China | Sep. 2012 - Jul. 2016 |
| B.E. in Telecommunication Engineering, GPA: 89/100, Ranking: Top-3% | |

Research Interests

- DL** Deep network architecture, efficient and lightweight network.
- CV** Low-level vision, cross-modal retrieval and semantic segmentation.

Publications

• Frist Author

- [1] Shupeng Su*, **Zhisheng Zhong***, Chao Zhang. “Deep Joint-semantics Reconstructing Hashing for Large-scale Unsupervised Cross-modal Retrieval”. *International Conference on Computer Vision (ICCV)*, 2019. * indicates equal contribution, Oral, Top-4.3%.
- [2] **Zhisheng Zhong**, Fangyin Wei, Zhouchen Lin, Chao Zhang. “ADA-Tucker: Compressing Deep Neural Networks via Adaptive Dimension Adjustment Tucker Decomposition”. *Elsevier, Neural Networks (NN)*, 2019. 5-Year Impact Factor: 6.864. [\[pdf\]](#)
- [3] **Zhisheng Zhong**, Tiancheng Shen, Yibo Yang, Chao Zhang, Zhouchen Lin. “Joint Sub-bands Learning with Clique Structures for Wavelet Domain Super-Resolution”. *Neural Information Processing Systems (NIPS)*, 2018. [\[pdf\]](#)
- [4] **Zhisheng Zhong**, Yong Sun, Yue Wang, et al. “An Improved Collaborative Filtering Recommendation Algorithm not Based on Item Rating”. *International Conference on Cognitive Informatics & Cognitive Computing (ICCI*CC)*, 2015. Undergraduate period. [\[pdf\]](#)

• Joint Author

- [1] Xia Li, **Zhisheng Zhong**, Jianlong Wu, Yibo Yang, Zhouchen Lin, Hong Liu. “Expectation Maximization Attention Networks for Semantic Segmentation”. *International Conference on Computer Vision (ICCV)*, 2019. Oral, Top-4.3%. [\[pdf\]](#) and [\[code\]](#)
- [2] Xingyu Xie, Jianlong Wu, **Zhisheng Zhong**, Guangcan Liu, Zhouchen Lin. “Differentiable Linearized ADMM”. *International Conference on Machine Learning (ICML)*, 2019. [\[pdf\]](#) and [\[code\]](#)
- [3] Tiancheng Shen, Xia Li, **Zhisheng Zhong**, Jianlong Wu, Zhouchen Lin. “R²Net Recurrent and Recursive Network for Sparse View CT Artifacts Removal”. *Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2019.
- [4] Yibo Yang, **Zhisheng Zhong**, Tiancheng Shen, Zhouchen Lin. “Convolutional Neural Networks with Alternately Updated Clique”. *Computer Vision and Pattern Recognition (CVPR)*, 2018. Oral, Top-2.3%. [\[pdf\]](#) and [\[code\]](#)

- **Patents**

- [1] Zhouchen Lin, **Zhisheng Zhong**, et al. "Joint Sub-bands Learning with Clique Structures for Wavelet Domain Super-Resolution". Chinese Patent No.: 201811007566.1.
- [2] Zhouchen Lin, **Zhisheng Zhong**, et al. "A DNN Compression Method Based on Adaptive Dimension Adjustment Tucker Decomposition". Chinese Patent No.: 201710623220.3.

Honors & Awards

- 2019 **Monbukagakusho (MEXT) Scholarship**, University of Tokyo, University recommendation
- 2019 **Qualcomm Scholarship** (¥ 32,0000 JPY), Peking University (Top-2%)
- 2019 **Excellent Graduate**, Peking University (Top-10%)
- 2018 **Bao Steel Education Scholarship** (¥ 16,0000 JPY), Peking University (Top-5%)
- 2018 **Merit Student**, Peking University (Top-5%)
- 2016 **Third Prize**, National Graduate Contest on Smart-city Technology and Creative Design, China
- 2016 **Excellent Graduate**, Beijing (Top-5%)
- 2015 **Honorable Prize**, Mathematical modeling competition for American college students, USA
- 2014 **Merit Student**, Beijing University of Posts and Telecommunications (Top-5%)
- 2014 **National Encouragement Scholarship**, Beijing University of Posts and Telecommunications
- 2013 **Merit Student**, Beijing University of Posts and Telecommunications (Top-5%)
- 2013 **National Encouragement Scholarship**, Beijing University of Posts and Telecommunications
- 2013 **First Prize**, Beijing undergraduate physics competition, Beijing (Top-10%)
- 2013 **First Prize**, Beijing undergraduate mathematics competition, Beijing (Top-10%)

Experiences

Research Intern, Microsoft Research Asia, Beijing, China Mar. 2018 - May. 2018

We design compacted CNN models with different-scales to detect face key points on Widerface.

Visiting Scholar in Statistic, Florida State University, Florida, USA Nov. 2017 - Feb. 2018

Supervisor: [Yiyuan She](#), we propose an optimization-based inherent clustering framework.

Skills

Language Chinese: *native*; English: *fluent*, TOEFL (85)

Programming Experienced in Python, MATLAB, C/C++, \LaTeX

Libraries Experienced in Pytorch, Keras, familiar with TensorFlow, Caffe, Scikit-learn

Courseworks

- M.S.** Pattern Recognition, Machine Learning, Deep Learning, Computer Vision, Digital Image Processing, Convex Optimization.
- B.E.** Calculus, Probability Theory, Linear Algebra, Information Theory, Principles of Communications, Digital Signal Processing, C++ Programming, Data Structures and Algorithm Design.