

Zhen CHEN

Room 2325, AC1, City University of Hong Kong, Kowloon, Hong Kong.

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EDUCATION

City University of Hong Kong (CityU), Hong Kong SAR Sep. 2018 - Present

Ph.D. in Department of Electrical Engineering (EE)

Supervisor: Prof. Yixuan Yuan

University of Science and Technology of China (USTC), Hefei, China Sep. 2016 - Jun. 2019

M.S. in Department of Electronic Engineering and Information Science (EEIS)

Supervisor: Prof. Weiping Li and Prof. Zhibo Chen

Thesis: Acceleration, Compression and Evaluation Methods on Deep Neural Networks

Xi'an Jiaotong University (XJTU), Xi'an, China Sep. 2012 - Jun. 2016

B.E. in Information Engineering (IE)

GPA: 89.76/100, (**Honor: Outstanding Graduates Award**)

EXPERIENCE

iFLYTEK, Hefei, China Jul. 2019 - Aug. 2019

Researcher in Research and Development Group

Histopathology images-based segmentation

Hong Kong Baptist University, KLN, Hong Kong Jul. 2016 - Aug. 2016

Intern at Department of Computer Science (CS)

Supervisor: Prof. Li Chen

CASIA, Beijing, China Jun. 2015 - Aug. 2015

Intern at National Laboratory of Pattern Recognition

Supervisor: Prof. Stan Z. Li and Prof. Zhen Lei

RESEARCH INTERESTS

Medical Image Analysis, Neural Network Acceleration, Machine Learning.

My research interests include classification and segmentation for histopathology images and super-resolution.

PUBLICATIONS ([GOOGLE SCHOLAR](#))

1. Zikun Liu, **Zhen Chen**, Weiping Li. "Importance-Aware Filter Selection for Convolutional Neural Network Acceleration." *2019 IEEE International Conference on Visual Communications and Image Processing (VCIP 2019)*, Sydney, Australia.
2. **Zhen Chen**, Jianxin Lin, Sen Liu, Zhibo Chen, Weiping Li, Jin Zhao, Wei Yan. "Exploiting Weight-Level Sparsity in Channel Pruning with Low-Rank Approximation." *2019 IEEE International Symposium on Circuits and Systems (ISCAS 2019)*, Sapporo, Japan.

3. **Zhen Chen**, Jianxin Lin, Sen Liu, Jun Xia, Weiping Li. “Decouple and Stretch: A Boost to Channel Pruning.” *2018 IEEE 37th International Performance Computing and Communications Conference (IPCCC 2018)*, Orlando, USA.

RESEARCH EXPERIENCES

- | | |
|--|-----------------------|
| Automatic Staining for Histopathology Images | Aug. 2019 - Present |
| <ul style="list-style-type: none"> Image translation from fluorescence images to H&E stained images | |
| Histopathology Images Classification | Apr. 2019 - Present |
| <ul style="list-style-type: none"> Classification for H&E stained tissue images Super-resolution for histopathology images | |
| Histopathology Images Segmentation | Sep. 2019 - Aug. 2019 |
| <ul style="list-style-type: none"> Segmentation for Colonoscopy tissue images | |
| Convolutional Neural Network Acceleration | Sep. 2017 - Jun. 2019 |
| <ul style="list-style-type: none"> Low-rank approximated channel pruning for CNNs acceleration Reinforcement learning-based pruning for CNNs acceleration Global perspective evaluation for efficiency of acceleration and compression algorithms | |
| Virtual Reality | Mar. 2015 - Apr. 2017 |
| <ul style="list-style-type: none"> Saliency prediction in virtual reality environment Panorama image stitching | |

SELECTED AWARDS

- Xi'an Jiaotong University Outstanding Graduates Award
- Outstanding Student Leaders Award
- Outstanding Students Award (*twice*)
- National Inspirational Scholarship
- Wenyuan Pan Scholarship

PROFESSIONAL ACTIVITIES

TPC Member

- WoWMoM 2019 CCNCPS Workshop

Technical Reviewers

- GLOBECOM 2018

LEADERSHIP

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| • Vice-president of Graduate Students Union, School of Information Science, USTC | 2017-2018 |
| • Vice-president of Senior Students Helping Club, Wenzhi College, XJTU | 2014-2015 |
| • Leader of XJTU English Club | 2013-2014 |