Zhen CHEN Curriculum Vitae

Zhen CHEN

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EDUCATION

City University of Hong Kong (CityU), Hong Kong SAR

Sep. 2018 - Present

Ph.D. Student in Electrical Engineering (EE)

Supervisor: Prof. Yixuan Yuan

At USTC during Sep. 2018 - Jun. 2019 according to the Collaboration Scheme

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

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

MOE-Microsoft Key Laboratory of Multimedia Computing and Communication

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, Top 5% (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, Kowloon, 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 superresolution.

PUBLICATIONS (GOOGLE SCHOLAR)

- 1. Xiaoqing Guo, **Zhen Chen**, Yixuan Yuan. "IComplementary Network with Adaptive Receptive Fields for Melanoma Segmentation." *IEEE International Symposium on Biomedical Imaging* (ISBI 2020), Iowa City, USA.
- Zhen Chen, Zhibo Chen, Jianxin Lin, Sen Liu, Weiping Li. "Deep Neural Network Acceleration Based on Low-Rank Approximated Channel Pruning." IEEE Transactions on Circuits and Systems I: Regular Papers (TCAS-I), 2020, invited paper from ISCAS 2019.

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3. 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.

- 4. **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.
- 5. **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

Image translation from fluorescence images to H&E stained images

Histopathology Images Classification

Apr. 2019 - Presnet

- Classification for H&E stained tissue images
- Super-resolution for histopathology images

Histopathology Images Segmentation

Jun. 2019 - Aug. 2019

• Segmentation for colonoscopy tissue images

Convolutional Neural Network Acceleration

Sep. 2017 - Jun. 2019

Mar. 2015 - May 2017

- 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

- 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 Memeber

• WoWMoM 2019 CCNCPS Workshop

Technical Reviewers

• GLOBECOM 2018

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LEADERSHIP

•	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