Zhen CHEN

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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

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**)

PREVIOUS WORK EXPERIENCE

iFLYTEK, Hefei, China   Jul. 2019 - Aug. 2019
Researcher in Research and Development Group
Histopathology images-based segmentation

Hong Kong Baptist University, 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

RESEARCH INTERESTS

Medical Image Analysis, Neural Network Acceleration, Deep 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.

PUBLICATIONS UNDER REVIEW

1. **Xiaoqing Guo**, Yixuan Yuan. "Semi-supervised WCE Image Classification with Adaptive Aggregated Attention." *IEEE Transactions on Medical Imaging (**TMI**).*

RESEARCH EXPERIENCES

Automatic Diagnosis for Wireless Capsule Endoscopy Images　　　Sep. 2018 - Present

- Classification and localization for WCE images

- Abnormality detection based on attention mechanism

- Semi-supervised learning for WCE image analysis

Diagnosis of Brain Tumor in MRI　　　Sep. 2018 - Present

- Automatic brain tumor segmentation

- Survival and grading prediction with incorporating clinical information

Melanoma Segmentation for Dermoscopy Images　　　Jan. 2019 - Present

- Semi-supervised learning for automatic melanoma segmentation

Coverless Text Steganography　　　Nov. 2017 - Jul. 2018

- Coverless information hiding based on recurrent neural networks

- Constructed a language model network to automatically generate a high-quality text according to a secret bit stream

Medical Image Registration　　　Jan. 2017 - Jun. 2018

- 2D/3D (X-ray/CT) medical image registration using Convolutional Neural Network

- 2D (CT or MRI) medical image registration with unsupervised learning strategy

SELECTED AWARDS

- **Outstanding Academic Performance Award (OAPA)**, City University of Hong Kong, 2019

- **Research Tuition Scholarship (RTS)**, City University of Hong Kong, 2019 - 2020

- **Honorable Mention**, Mathematical Contest in Modeling (MCM), 2016

- **Grand Prize**, the 25th "Feng Ru Cup" Competition of Innovation, BUAA, 2015

PROFESSIONAL ACTIVITIES

TPC Memeber

- WoWMoM 2019 CCNCPS Workshop

Technical Reviewers

- GLOBECOM 2018